

10/520,282

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NEWS	2	JUL 02	LMEDLINE coverage updated
NEWS	3	JUL 02	SCISEARCH enhanced with complete author names
NEWS	4	JUL 02	CHEMCATS accession numbers revised
NEWS	5	JUL 02	CA/CAPplus enhanced with utility model patents from China
NEWS	6	JUL 16	CAPplus enhanced with French and German abstracts
NEWS	7	JUL 18	CA/CAPplus patent coverage enhanced
NEWS	8	JUL 26	USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS	9	JUL 30	USGENE now available on STN
NEWS	10	AUG 06	CAS REGISTRY enhanced with new experimental property tags
NEWS	11	AUG 06	BEILSTEIN updated with new compounds
NEWS	12	AUG 06	FSTA enhanced with new thesaurus edition
NEWS	13	AUG 13	CA/CAPplus enhanced with additional kind codes for granted patents
NEWS	14	AUG 20	CA/CAPplus enhanced with CAS indexing in pre-1907 records
NEWS	15	AUG 27	Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
NEWS	16	AUG 27	USPATOLD now available on STN
NEWS	17	AUG 28	CAS REGISTRY enhanced with additional experimental spectral property data
NEWS	18	SEP 07	STN AnaVist, Version 2.0, now available with Derwent World Patents Index
NEWS	19	SEP 13	FORIS renamed to SOFIS
NEWS	20	SEP 13	INPADOCDB enhanced with monthly SDI frequency
NEWS	21	SEP 17	CA/CAPplus enhanced with printed CA page images from 1967-1998
NEWS	22	SEP 17	CAPplus coverage extended to include traditional medicine patents
NEWS	23	SEP 24	EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS	24	OCT 02	CA/CAPplus enhanced with pre-1907 records from Chemisches Zentralblatt
NEWS EXPRESS	19	SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.	

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NEWS LOGIN Welcome Banner and News Items
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FILE 'HOME' ENTERED AT 14:13:04 ON 08 OCT 2007

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

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STRUCTURE FILE UPDATES: 7 OCT 2007 HIGHEST RN 949564-53-8

DICTIONARY FILE UPDATES: 7 OCT 2007 HIGHEST RN 949564-53-8

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

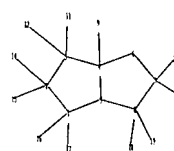
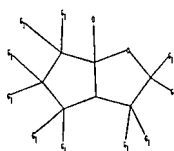
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<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10520282.str



chain nodes :
 9 11 12 14 15 16 17 18 19 21 22
 ring nodes :
 1 2 3 4 5 6 7 8
 chain bonds :
 1-16 1-17 2-14 2-15 3-11 3-12 4-9 7-21 7-22 8-18 8-19
 ring bonds :
 1-2 1-5 2-3 3-4 4-5 4-6 5-8 6-7 7-8
 exact/norm bonds :
 1-16 1-17 2-14 2-15 3-11 3-12 4-9 7-21 7-22 8-18 8-19
 exact bonds :
 1-2 1-5 2-3 3-4 4-5 4-6 5-8 6-7 7-8
 isolated ring systems :
 containing 1 :

G1:H,Ak

Match level :
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:CLASS
 11:CLASS 12:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS
 19:CLASS 21:CLASS 22:CLASS

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L1 STRUCTURE UPLOADED

=> s l1

SAMPLE SEARCH INITIATED 14:13:43 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 162 TO ITERATE

100.0% PROCESSED 162 ITERATIONS 12 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
PROJECTED ITERATIONS: 2477 TO 4003
PROJECTED ANSWERS: 33 TO 447

L2 12 SEA SSS SAM L1

=> s l1 ful

FULL SEARCH INITIATED 14:13:51 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 2862 TO ITERATE

100.0% PROCESSED 2862 ITERATIONS 270 ANSWERS
SEARCH TIME: 00.00.01

L3 270 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	172.10	172.31

FILE 'CAPLUS' ENTERED AT 14:14:00 ON 08 OCT 2007
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FILE LAST UPDATED: 7 Oct 2007 (20071007/ED)

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<http://www.cas.org/infopolicy.html>

=> s 13

L4 46 L3

=> s 14 and py=<2003

23955541 PY=<2003

L5 27 L4 AND PY=<2003

=> d 15 ibib abs hitstr hitind 1-27

L5 ANSWER 1 OF 27 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:485795 CAPLUS

DOCUMENT NUMBER: 139:261151

TITLE: New silicon-mediated ring expansion of n-sized conjugated cycloalkenones into homoallylic n+3 lactones

AUTHOR(S): Hatcher, Mark A.; Borstnik, Kristina; Posner, Gary H.

CORPORATE SOURCE: School of Arts and Sciences, Department of Chemistry,

The Johns Hopkins University, Baltimore, MD, 21218, USA

SOURCE: Tetrahedron Letters (2003), 44(29), 5407-5409

CODEN: TELEAY; ISSN: 0040-4039

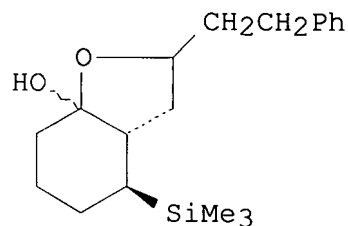
PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

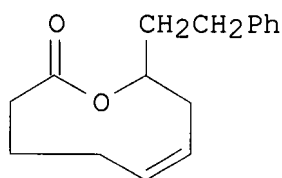
LANGUAGE: English

OTHER SOURCE(S): CASREACT 139:261151

GI



I



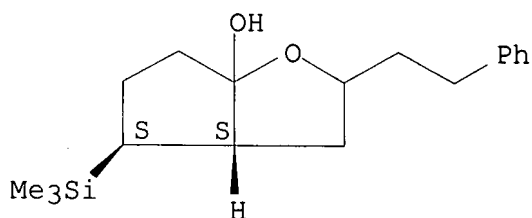
II

AB Silicon nucleophilic β -addition to various 2-cycloalkenones, followed ultimately by mild and rapid α -alkylation of the corresponding cycloalkanone enolates using diverse epoxides and $\text{BF}_3 \cdot \text{OEt}_2$, produces useful γ -lactols, e.g., I, and γ -hydroxy ketones. Hypervalent iodine-promoted oxidative fragmentation then yields

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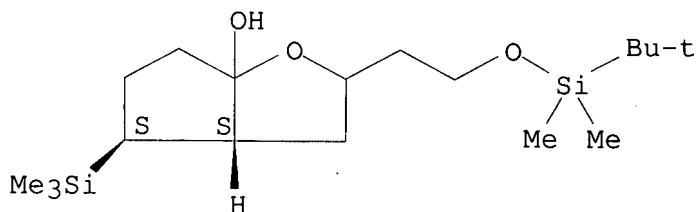
regiospecifically unsatd., 3-atom ring expanded, 8-10 membered
homoallylic
lactones, e.g., II, with good control of alkene geometry.
IT 600734-94-9P 600734-95-0P 600734-96-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
RACT
(Reactant or reagent)
(ring enlargement of cycloalkenones into homoallylic lactones via
silylated intermediates and hypervalent iodine-promoted oxidative
fragmentation)
RN 600734-94-9 CAPLUS
CN 6aH-Cyclopenta[b]furan-6a-ol, hexahydro-2-(2-phenylethyl)-4-
(trimethylsilyl)-, (3aR,4R)-rel- (CA INDEX NAME)

Relative stereochemistry.



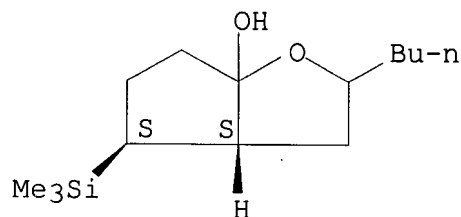
RN 600734-95-0 CAPLUS
CN 6aH-Cyclopenta[b]furan-6a-ol,
2-[2-[[[1,1-dimethylethyl)dimethylsilyl]oxy]
ethyl]hexahydro-4-(trimethylsilyl)-, (3aR,4R)-rel- (CA INDEX NAME)

Relative stereochemistry.



RN 600734-96-1 CAPLUS
CN 6aH-Cyclopenta[b]furan-6a-ol, 2-butylhexahydro-4-(trimethylsilyl)-,
(3aR,4R)-rel- (CA INDEX NAME)

Relative stereochemistry.



CC 27-21 (Heterocyclic Compounds (One Hetero Atom))

Section cross-reference(s): 26

IT 55942-21-7P 600734-81-4P 600734-82-5P 600734-83-6P 600734-84-7P
 600734-85-8P 600734-86-9P 600734-93-8P 600734-94-9P
 600734-95-0P 600734-96-1P 600735-00-0P 600735-01-1P
 600735-02-2P 600735-04-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);

RACT

(Reactant or reagent)

(ring enlargement of cycloalkenones into homoallylic lactones via
 silylated intermediates and hypervalent iodine-promoted oxidative
 fragmentation)

REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR
 THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L5 ANSWER 2 OF 27 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:716217 CAPLUS

DOCUMENT NUMBER: 137:247595

TITLE: Preparation of bicyclocloxaoctanes and
 bicyclocloxaoctenes

as optical resolving agents and method for optical
 resolution of alcohols using said agents

INVENTOR(S): Nemoto, Hisao; Shibuya, Masayuki

PATENT ASSIGNEE(S): Zeon Corporation, Japan

SOURCE: PCT Int. Appl., 43 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

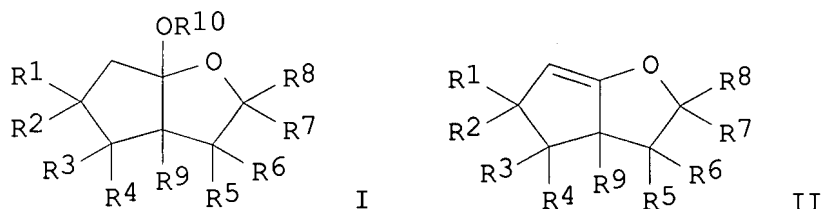
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002072505	A1	20020919	WO 2002-JP1644	20020225
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W: JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
EP 1364933	A1	20031126	EP 2002-700734	20020225
<--				

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI, CY, TR

JP 3901093	B2	20070404	JP 2002-571427	20020225
US 2004077098	A1	20040422	US 2003-468887	20030826
US 2007155994	A1	20070705	US 2007-683322	20070307
PRIORITY APPLN. INFO.:			JP 2001-50958	A 20010226
			WO 2002-JP1644	W 20020225
			US 2003-468887	A3 20030826

OTHER SOURCE(S): MARPAT 137:247595
GI



AB This document discloses : an optical resolving agent comprising at least

one of compds. represented by the formulas I and II (R1 to R8 each represents hydrogen or C1-20 alkyl; R9 represents optionally substituted

C1-20 alkyl, optionally substituted C1-20 alkenyl, formyl, or acyl; and R10 represents C1-6 alkyl; provided that the mol. represented by the formula I is of the cis configuration with respect to R9 and OR10);

and a

method for optically resolving an alc. (R11)(R12)(R13)COH (R11, R12, and

R13 each represents hydrogen or optionally substituted C1-20 alkyl, provided that at least one of R11, R12, and R13 is not hydrogen). The method of optical resolution is highly suitable for general purposes.

By the

title method, a mixture of optical isomers of any of various alcs. can be

optically resolved easily and industrially advantageously.

IT 461025-78-5

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of bicyclooxaoctanes and bicyclooxaoctenes as optical resolving

agents and method for optical resolution of alcs. using said agents)

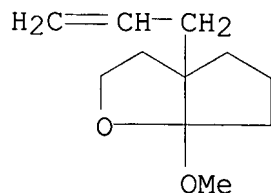
RN 461025-78-5 CAPLUS

CN 2H-Cyclopenta[b]furan, hexahydro-6a-methoxy-3a-(2-propen-1-yl)- (CA

INDEX

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NAME)



IT 461025-70-7P 461025-71-8P 461025-72-9P
461025-73-0P 461025-74-1P 461025-75-2P
461025-76-3P 461025-77-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);

RACT

(Reactant or reagent)

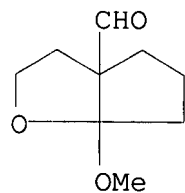
(preparation of bicyclooxaocanes and bicyclooxaocenes as optical resolving

agents and method for optical resolution of alcs. using said agents)

RN 461025-70-7 CAPLUS

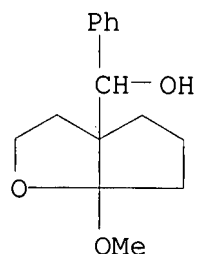
CN 3aH-Cyclopenta[b]furan-3a-carboxaldehyde, hexahydro-6a-methoxy- (9CI)
(CA

INDEX NAME)



RN 461025-71-8 CAPLUS

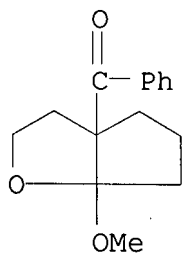
CN 3aH-Cyclopenta[b]furan-3a-methanol, hexahydro-6a-methoxy- α -phenyl-
(9CI) (CA INDEX NAME)



RN 461025-72-9 CAPLUS

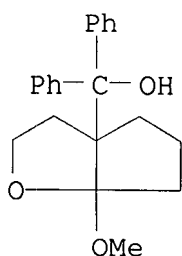
CN Methanone, (hexahydro-6a-methoxy-3aH-cyclopenta[b]furan-3a-yl)phenyl-
(9CI) (CA INDEX NAME)

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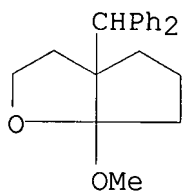
RN 461025-73-0 CAPLUS

CN 3aH-Cyclopenta[b]furan-3a-methanol, hexahydro-6a-methoxy- α,α -diphenyl- (9CI) (CA INDEX NAME)



RN 461025-74-1 CAPLUS

CN 2H-Cyclopenta[b]furan, 3a-(diphenylmethyl)hexahydro-6a-methoxy- (9CI)
(CA INDEX NAME)

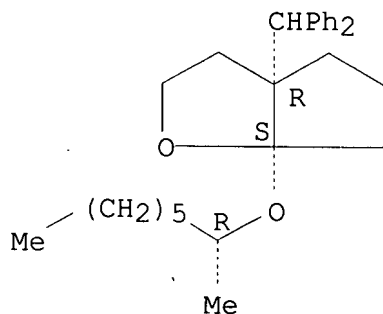


RN 461025-75-2 CAPLUS

CN 2H-Cyclopenta[b]furan, 3a-(diphenylmethyl)hexahydro-6a-[[(1R)-1-methylheptyloxy]-, (3aR,6aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

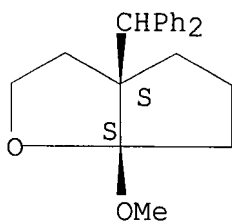
10/520,282



RN 461025-76-3 CAPLUS

CN 2H-Cyclopenta[b]furan, 3a-(diphenylmethyl)hexahydro-6a-methoxy-,
(3aS,6aS)-(9CI) (CA INDEX NAME)

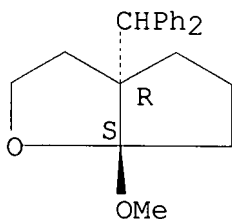
Absolute stereochemistry. Rotation (-).



RN 461025-77-4 CAPLUS

CN 2H-Cyclopenta[b]furan, 3a-(diphenylmethyl)hexahydro-6a-methoxy-,
(3aR,6aS)-(9CI) (CA INDEX NAME)

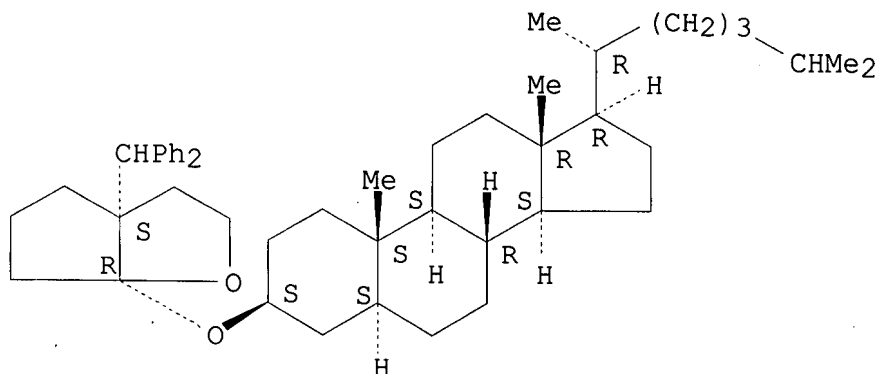
Absolute stereochemistry. Rotation (+).



RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of bicyclicooxaoctanes and bicyclicooxaoctenes as optical
resolving
agents and method for optical resolu. of alcs. using said agents)
RN 461025-41-2 CAPLUS
CN 2H-Cyclopenta[b]furan, 6a-[(3β,5α)-cholestan-3-yloxy]-3a-
(diphenylmethyl)hexahydro-, (3aS,6aR)-(9CI) (CA INDEX NAME)

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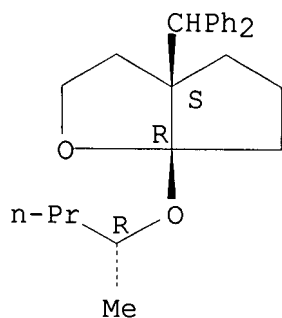
Absolute stereochemistry. Rotation (-).



RN 461025-42-3 CAPLUS

CN 2H-Cyclopenta[b]furan, 3a-(diphenylmethyl)hexahydro-6a-[(1R)-1-methylbutoxy]-, (3aS,6aR)- (9CI) (CA INDEX NAME)

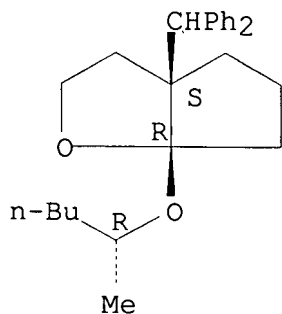
Absolute stereochemistry.



RN 461025-43-4 CAPLUS

CN 2H-Cyclopenta[b]furan, 3a-(diphenylmethyl)hexahydro-6a-[[(1R)-1-methylpentyl]oxy]-, (3aS,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

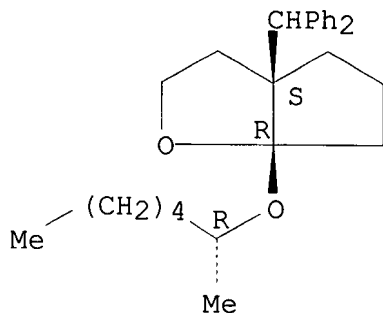


10/520,282

RN 461025-44-5 CAPLUS

CN 2H-Cyclopenta[b]furan, 3a-(diphenylmethyl)hexahydro-6a-[[(1R)-1-methylhexyl]oxy]-, (3aS,6aR)- (9CI) (CA INDEX NAME)

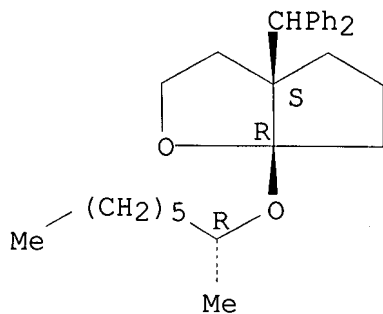
Absolute stereochemistry.



RN 461025-45-6 CAPLUS

CN 2H-Cyclopenta[b]furan, 3a-(diphenylmethyl)hexahydro-6a-[[(1R)-1-methylheptyl]oxy]-, (3aS,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

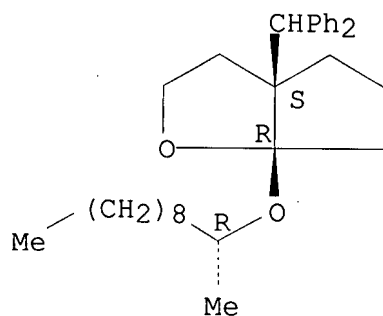


RN 461025-46-7 CAPLUS

CN 2H-Cyclopenta[b]furan, 3a-(diphenylmethyl)hexahydro-6a-[[(1R)-1-methyldecyl]oxy]-, (3aS,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

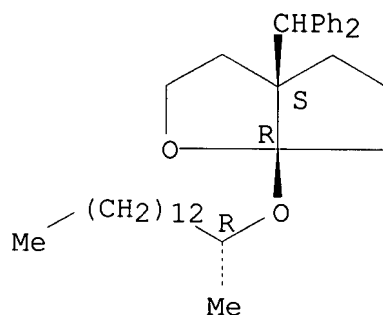
10/520,282



RN 461025-47-8 CAPLUS

CN 2H-Cyclopenta[b]furan, 3a-(diphenylmethyl)hexahydro-6a-[[(1R)-1-methyltetradecyl]oxy]-, (3aS,6aR)- (9CI) (CA INDEX NAME)

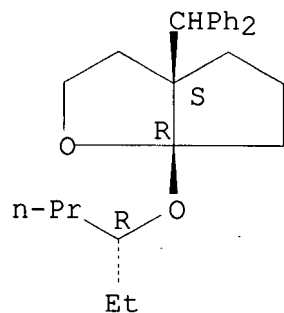
Absolute stereochemistry.



RN 461025-48-9 CAPLUS

CN 2H-Cyclopenta[b]furan, 3a-(diphenylmethyl)-6a-[(1R)-1-ethylbutyloxy]hexahydro-, (3aS,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

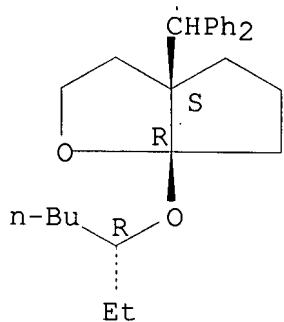


RN 461025-49-0 CAPLUS

CN 2H-Cyclopenta[b]furan, 3a-(diphenylmethyl)-6a-[(1R)-1-ethylpentyl]oxy]hexahydro-, (3aS,6aR)- (9CI) (CA INDEX NAME)

10/520,282

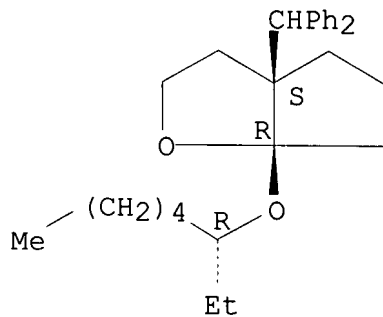
Absolute stereochemistry.



RN 461025-50-3 CAPLUS

CN 2H-Cyclopenta[b]furan, 3a-(diphenylmethyl)-6a-[[(1R)-1-ethylhexyl]oxy]hexahydro-, (3aS,6aR)- (9CI) (CA INDEX NAME)

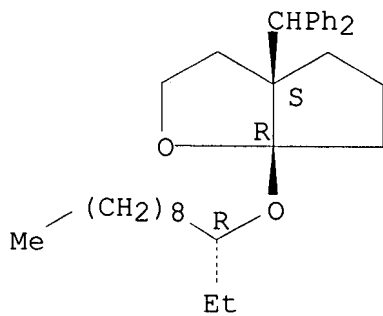
Absolute stereochemistry.



RN 461025-51-4 CAPLUS

CN 2H-Cyclopenta[b]furan, 3a-(diphenylmethyl)-6a-[[(1R)-1-ethyldecyl]oxy]hexahydro-, (3aS,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

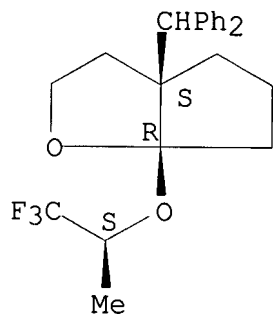


RN 461025-52-5 CAPLUS

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CN 2H-Cyclopenta[b]furan, 3a-(diphenylmethyl)hexahydro-6a-[(1S)-2,2,2-trifluoro-1-methylethoxy]-, (3aS,6aR)- (9CI) (CA INDEX NAME)

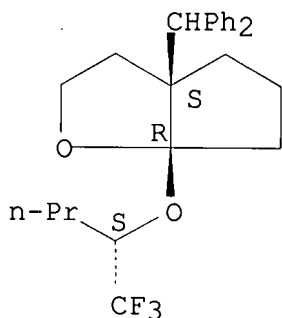
Absolute stereochemistry.



RN 461025-53-6 CAPLUS

CN 2H-Cyclopenta[b]furan, 3a-(diphenylmethyl)hexahydro-6a-[(1S)-1-(trifluoromethyl)butoxy]-, (3aS,6aR)- (9CI) (CA INDEX NAME)

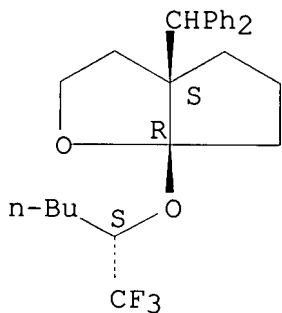
Absolute stereochemistry.



RN 461025-54-7 CAPLUS

CN 2H-Cyclopenta[b]furan, 3a-(diphenylmethyl)hexahydro-6a-[[(1S)-1-(trifluoromethyl)pentyl]oxy]-, (3aS,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

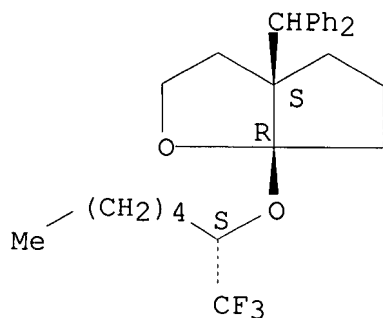


10/520,282

RN 461025-55-8 CAPLUS

CN 2H-Cyclopenta[b]furan, 3a-(diphenylmethyl)hexahydro-6a-[[(1S)-1-(trifluoromethyl)hexyl]oxy]-, (3aS,6aR)- (9CI) (CA INDEX NAME)

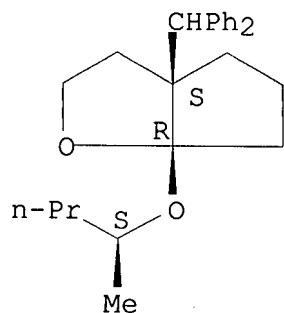
Absolute stereochemistry.



RN 461025-56-9 CAPLUS

CN 2H-Cyclopenta[b]furan, 3a-(diphenylmethyl)hexahydro-6a-[[(1S)-1-methylbutoxy]-, (3aS,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

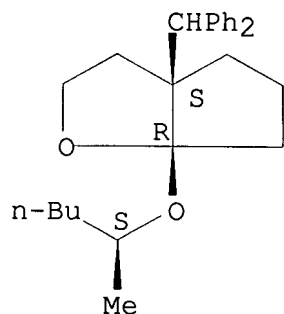


RN 461025-57-0 CAPLUS

CN 2H-Cyclopenta[b]furan, 3a-(diphenylmethyl)hexahydro-6a-[[(1S)-1-methylpentyl]oxy]-, (3aS,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

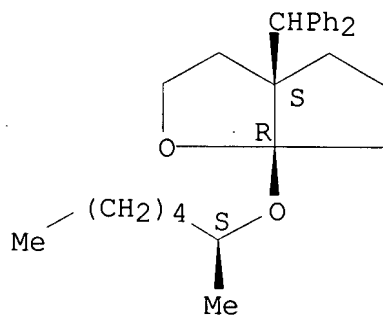
10/520,282



RN 461025-58-1 CAPLUS

CN 2H-Cyclopenta[b]furan, 3a-(diphenylmethyl)hexahydro-6a-[[(1S)-1-methylhexyl]oxy]-, (3aS,6aR)- (9CI) (CA INDEX NAME)

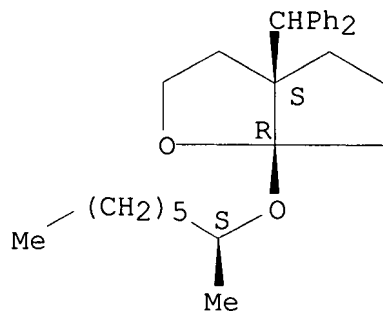
Absolute stereochemistry.



RN 461025-59-2 CAPLUS

CN 2H-Cyclopenta[b]furan, 3a-(diphenylmethyl)hexahydro-6a-[[(1S)-1-methylheptyl]oxy]-, (3aS,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

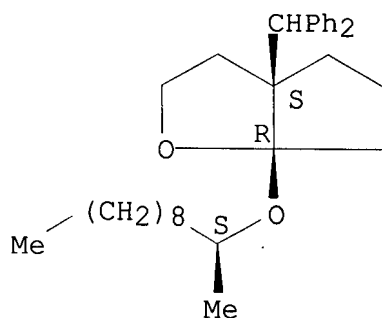


RN 461025-60-5 CAPLUS

CN 2H-Cyclopenta[b]furan, 3a-(diphenylmethyl)hexahydro-6a-[[(1S)-1-methyldecyl]oxy]-, (3aS,6aR)- (9CI) (CA INDEX NAME)

10/520,282

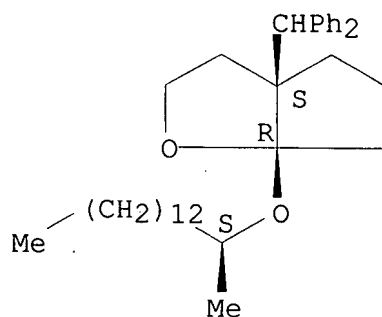
Absolute stereochemistry.



RN 461025-61-6 CAPLUS

CN 2H-Cyclopenta[b]furan, 3a-(diphenylmethyl)hexahydro-6a-[[(1S)-1-methyltetradecyl]oxy]-, (3aS,6aR)- (9CI) (CA INDEX NAME)

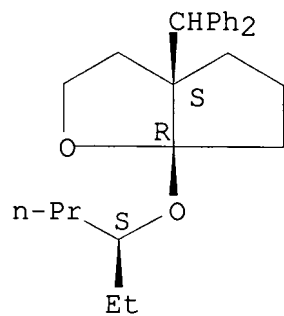
Absolute stereochemistry.



RN 461025-62-7 CAPLUS

CN 2H-Cyclopenta[b]furan, 3a-(diphenylmethyl)-6a-[(1S)-1-ethylbutoxy]hexahydro-, (3aS,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

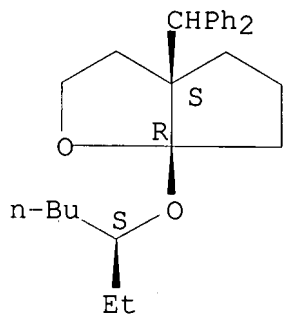


RN 461025-63-8 CAPLUS

10/520,282

CN 2H-Cyclopenta[b]furan, 3a-(diphenylmethyl)-6a-[[(1S)-1-ethylpentyl]oxy]hexahydro-, (3aS,6aR)- (9CI) (CA INDEX NAME)

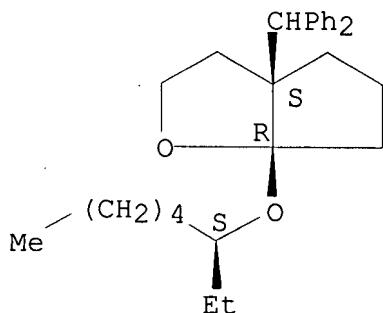
Absolute stereochemistry.



RN 461025-64-9 CAPLUS

CN 2H-Cyclopenta[b]furan, 3a-(diphenylmethyl)-6a-[[(1S)-1-ethylhexyl]oxy]hexahydro-, (3aS,6aR)- (9CI) (CA INDEX NAME)

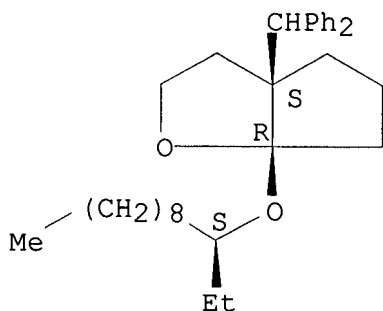
Absolute stereochemistry.



RN 461025-65-0 CAPLUS

CN 2H-Cyclopenta[b]furan, 3a-(diphenylmethyl)-6a-[[(1S)-1-ethyldecyl]oxy]hexahydro-, (3aS,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

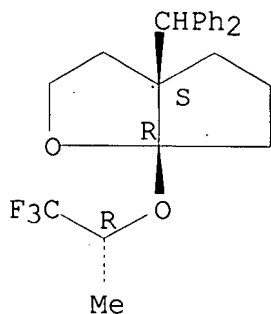


10/520,282

RN 461025-66-1 CAPLUS

CN 2H-Cyclopenta[b]furan, 3a-(diphenylmethyl)hexahydro-6a-[(1R)-2,2,2-trifluoro-1-methylethoxy]-, (3aS,6aR)- (9CI) (CA INDEX NAME)

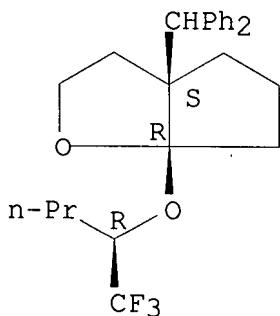
Absolute stereochemistry.



RN 461025-67-2 CAPLUS

CN 2H-Cyclopenta[b]furan, 3a-(diphenylmethyl)hexahydro-6a-[(1R)-1-(trifluoromethyl)butoxy]-, (3aS,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

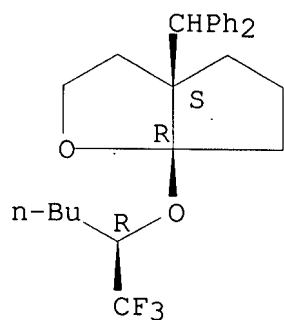


RN 461025-68-3 CAPLUS

CN 2H-Cyclopenta[b]furan, 3a-(diphenylmethyl)hexahydro-6a-[[(1R)-1-(trifluoromethyl)pentyl]oxy]-, (3aS,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

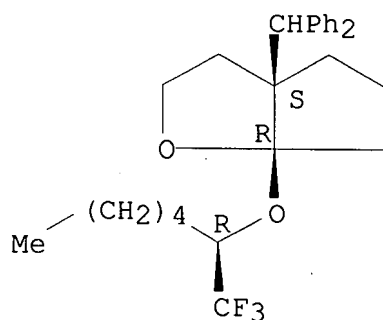
10/520,282



RN 461025-69-4 CAPLUS

CN 2H-Cyclopenta[b]furan, 3a-(diphenylmethyl)hexahydro-6a-[(1R)-1-(trifluoromethyl)hexyl]oxy]-, (3aS,6aR)- (9CI) (CA INDEX NAME)

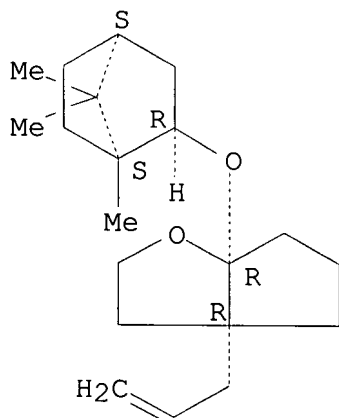
Absolute stereochemistry.



RN 461025-87-6 CAPLUS

CN 2H-Cyclopenta[b]furan, hexahydro-3a-(2-propenyl)-6a-[[(1S,2R,4S)-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl]oxy]-, (3aR,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

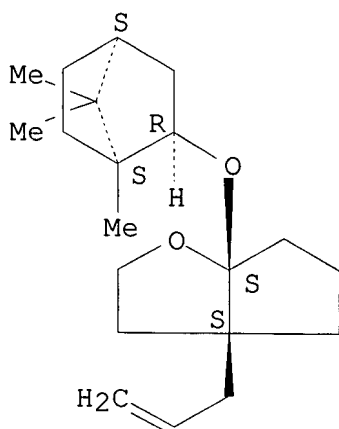


10/520,282

RN 461031-95-8 CAPLUS

CN 2H-Cyclopenta[b]furan, hexahydro-3a-(2-propenyl)-6a-[[[(1S,2R,4S)-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl]oxy]-, (3aS,6aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



IC ICM C07B057-00

ICS C07C031-12; C07C031-125; C07C031-38; C07C029-74; C07M007-00

CC 27-6 (Heterocyclic Compounds (One Hetero Atom))

Section cross-reference(s): 21, 80

IT 67-56-1, Methanol, reactions 75-36-5, Acetyl chloride 80-97-7
100-58-3, Phenylmagnesium bromide 123-96-6, 2-Octanol 360-33-8
374-01-6 433-24-9 464-45-9 543-49-7, 2-Heptanol 589-82-2,
3-Heptanol 589-98-0, 3-Octanol 623-37-0, 3-Hexanol 626-93-7,
2-Hexanol 1653-30-1, 2-Undecanol 1653-34-5, 2-Pentadecanol

5978-70-1

6032-29-7, 2-Pentanol 10203-30-2, 3-Dodecanol 80768-53-2

461025-78-5

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of bicyclooxaoctanes and bicyclooxaoctenes as optical
resolving
agents and method for optical resolution of alcs. using said agents)

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);

RACT

(Reactant or reagent)

(preparation of bicyclooxaoctanes and bicyclooxaoctenes as optical
resolving
agents and method for optical resolution of alcs. using said agents)

461025-86-5P 461025-87-6P 461031-95-8P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of bicyclooxaoctanes and bicyclooxaoctenes as optical
resolving
agents and method for optical resolution of alcs. using said agents)

10/520,282

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR
THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L5 ANSWER 3 OF 27 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:526623 CAPLUS

DOCUMENT NUMBER: 137:384437

TITLE: Manganese(III) acetate-mediated alkylation of
1,3-dicarbonyls to form tricarbonyl compounds
bearing

a quaternary carbon centre

AUTHOR(S): Bar, Gregory; Parsons, Andrew F.; Thomas, C. Barry

CORPORATE SOURCE: Department of Chemistry, University of York,
Heslington, YO10 5DD, UK

SOURCE: Synlett (2002), (7), 1069-1072

CODEN: SYNLES; ISSN: 0936-5214

PUBLISHER: Georg Thieme Verlag

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 137:384437

AB 1,3-Dicarbonyl compds. including Et 2-methylacetoacetate can be
efficiently alkylated with enol ethers or enol esters in the presence
of

manganese(III) acetate. These intermol. radical addition reactions
can be

used to form sterically congested quaternary carbon centers in
excellent

yield (81-97%). For example, Et 2-methylacetoacetate was reacted with
Bu

vinyl ether in the presence of manganese(III) acetate dihydrate and
copper(II) acetate monohydrate to give 92% Et 2-methyl-2-
(oxoethyl)acetoacetate.

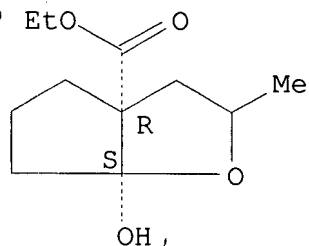
IT 475661-17-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 475661-17-7 CAPLUS

CN 3aH-Cyclopenta[b]furan-3a-carboxylic acid,
hexahydro-6a-hydroxy-2-methyl-,
ethyl ester, (3aR,6aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



Handwritten: R12 Hydrocarbon

CC 21-2 (General Organic Chemistry)
 IT 24810-58-0P 111400-47-6P 111400-48-7P 287724-55-4P 475661-08-6P
 475661-09-7P 475661-11-1P 475661-12-2P 475661-13-3P
 475661-14-4P
 475661-15-5P 475661-16-6P 475661-17-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

REFERENCE COUNT: 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR
 THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L5 ANSWER 4 OF 27 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:527053 CAPLUS

DOCUMENT NUMBER: 135:272585

TITLE: The addition of 2-oxido-2-cyclopenten-1-ylum to
 some

olefins and dienes in 2,2,2-trifluoroethanol
 AUTHOR(S): Leitich, Johannes; Heise, Ingeborg

CORPORATE SOURCE: Max-Planck-Institut fur Strahlenchemie, Mulheim a.
 d.

SOURCE: Ruhr, 45470, Germany
 European Journal of Organic Chemistry (2001
), (14), 2707-2718

CODEN: EJOCFK; ISSN: 1434-193X

PUBLISHER: Wiley-VCH Verlag GmbH

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 135:272585

AB The title reaction has been studied with 2-methoxypropene,
 (E)-cyclooctene, ethoxyethene, 1,3-cyclopentadiene, 3-
 methylenecyclohexene, styrene and isoprene as the olefinic substrates.
 This sequence is one of decreasing reactivity of the substrates towards
 2-oxido-2-cyclopenten-1-ylum (1) if [4 + 3] cycloaddn. (the prevailing
 reaction in the case of cyclopentadiene and isoprene) is ignored. This
 reactivity encompasses: (a) the formation of intermediate 1,5-dipoles,
 which in the majority of cases give rise to a multitude of products
 including many of higher mol. mass, and (b) two types of ene reactions,
 dubbed "ene-type 1" and "ene-type 2". Type 1, in which the migrating
 hydrogen atom is abstracted from 1, is ubiquitous (except with
 2-methoxypropene) but is always a minor reaction; type 2, in which the
 migrating hydrogen atom is transferred to 1, was encountered only in
 the cases of 3-methylenecyclohexene, in which it is a major reaction path,
 and isoprene. Both types were found to be slightly concerted. In this
 context, we observed an effect which we have dubbed "dipolar diversion
 of a concerted reaction". In general, those substrates incapable of
 forming [4 + 3] cycloadducts gave complicated mixts., with the exception of two

comps., which were found to give one predominant product with 1. The first of these is the trans-fixed 1,3-diene 3-methylenecyclohexene, which

gave the ene-type 2 adduct, while the second is the most nucleophilic substrate, 2-methoxypropene, which gave a mixture of four adducts (two pairs

of epimers), all of which gave a diketone on hydrolysis.

IT 364058-27-5P

RL: SPN (Synthetic preparation); PREP (Preparation)

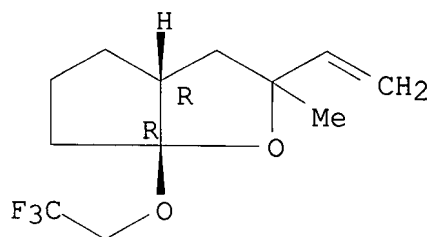
(the addition of 2-oxido-2-cyclopenten-1-ylum to some olefins and dienes

in 2,2,2-trifluoroethanol)

RN 364058-27-5 CAPLUS

CN 2H-Cyclopenta[b]furan, 2-ethenylhexahydro-2-methyl-6a-(2,2,2-trifluoroethoxy)-, (3aR,6aR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



102 1-4

CC 22-4 (Physical Organic Chemistry)

RL: SPN (Synthetic preparation); PREP (Preparation)

(the addn. of 2-oxido-2-cyclopenten-1-ylum to some olefins and dienes

in 2,2,2-trifluoroethanol)

REFERENCE COUNT: 59 THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L5 ANSWER 5 OF 27 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:307641 CAPLUS

DOCUMENT NUMBER: 129:27868

TITLE: Intramolecular bicyclization of hydroxypentynyliodonium triflate derivatives to furnish cyclopentannelated tetrahydrofurans: the

first

examples of cyclopentene formation following

alkoxide

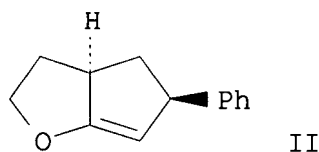
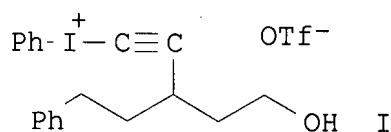
addition to alkynyliodonium salts

AUTHOR(S): Feldman, Ken S.; Bruendl, Michelle M.

CORPORATE SOURCE: Chem. Dep., Pennsylvania State Univ., University Park,

10/520,282

SOURCE: PA, 16802, USA
Tetrahedron Letters (1998), 39(19),
2911-2914
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 129:27868
GI



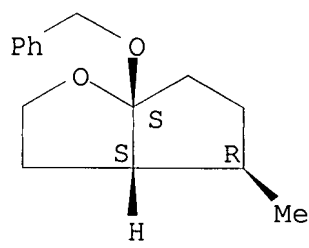
AB Several hydroxyalkynyliodonium triflates such as I can be cyclized with KNTMS2 to provide cyclopentannulated THF derivs. such as II in modest to good yields. The diastereoselectivity of C-H insertion by the intermediate carbene is better than that observed with the corresponding tosylamidoalkynyliodonium triflates. Product lability and an electronic mismatch between the alkoxide nucleophile and iodonium electrophile likely contribute to the modest yields.

IT 208046-70-2P 208046-72-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of cyclopenteno- and cyclopentanotetrahydrofurans by diastereoselective cyclization of hydroxypentylalkynyliodonium triflates)

RN 208046-70-2 CAPLUS

CN 2H-Cyclopenta[b]furan, hexahydro-4-methyl-6a-(phenylmethoxy)-, (3aR,4S,6aR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

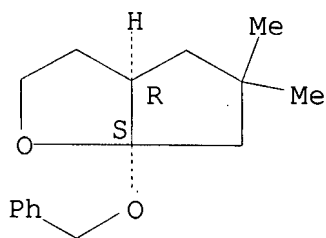


RN 208046-72-4 CAPLUS

10/520,282

CN 2H-Cyclopenta[b]furan, hexahydro-5,5-dimethyl-6a-(phenylmethoxy)-,
(3aR,6aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



CC 27-6 (Heterocyclic Compounds (One Hetero Atom))

IT 208046-61-1P 208046-70-2P 208046-71-3P 208046-72-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of cyclopenteno- and cyclopentanotetrahydrofurans by
diastereoselective cyclization of hydroxypentylalkynyliodonium
triflates)

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR
THIS

FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

L5 ANSWER 6 OF 27 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:253956 CAPLUS

DOCUMENT NUMBER: 126:293230

TITLE: Sequenced Reactions with Samarium(II) Iodide.
Sequential Nucleophilic Acyl Substitution/Ketyl

Olefin

Coupling Reactions for the Preparation of Oxygen
Heterocycles

AUTHOR(S): Molander, Gary A.; Harris, Christina R.

CORPORATE SOURCE: Department of Chemistry and Biochemistry,
University

SOURCE: of Colorado, Boulder, CO, 80309-0215, USA
Journal of Organic Chemistry (1997), 62(9),
2944-2956

CODEN: JOCEAH; ISSN: 0022-3263

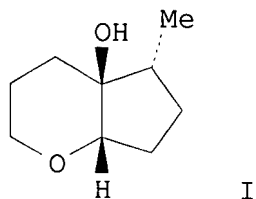
PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 126:293230

GI



AB Samarium(II) iodide has been employed to promote a sequential intramol. nucleophilic acyl substitution/intramol. ketyl olefin coupling cyclization

sequence to provide bicyclic, tricyclic, and spiro-fused oxygen heterocycles in excellent yield and with high diastereoselectivity.

E.g.,

treating $\text{EtO}_2\text{CCH}(\text{OCH}_2\text{CH}_2\text{CH}_2\text{I})\text{CH}_2\text{CH}_2\text{CH}=\text{CH}_2$ with SmI_2 in THF/HMPA gave 61% I

as a single diastereomeric product.

IT 189046-68-2P 189047-29-8P

RL: SPN (Synthetic preparation); PREP (Preparation)

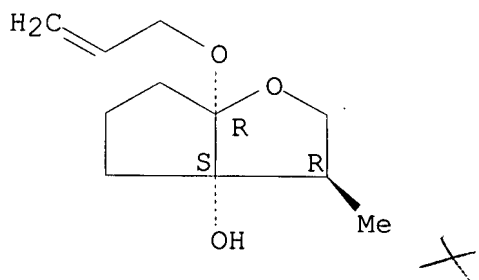
(preparation of oxygen heterocycles by a samarium iodide promoted intramol.

nucleophilic acyl substitution/intramol. ketyl olefin coupling cyclization sequence)

RN 189046-68-2 CAPLUS

CN 3aH-Cyclopenta[b]furan-3a-ol, hexahydro-3-methyl-6a-(2-propenyloxy)-, (3 α ,3a β ,6a β)-(9CI) (CA INDEX NAME)

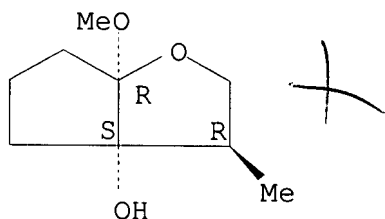
Relative stereochemistry.



RN 189047-29-8 CAPLUS

CN 3aH-Cyclopenta[b]furan-3a-ol, hexahydro-6a-methoxy-3-methyl-, (3 α ,3a β ,6a β)-(9CI) (CA INDEX NAME)

Relative stereochemistry.



CC 27-1 (Heterocyclic Compounds (One Hetero Atom))

IT 189046-57-9P 189046-59-1P 189046-61-5P 189046-62-6P

189046-64-8P

189046-68-2P 189046-72-8P 189046-74-0P 189046-77-3P

189046-82-0P 189046-84-2P 189046-86-4P 189046-91-1P

189047-24-3P

189047-27-6P 189047-28-7P 189047-29-8P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of oxygen heterocycles by a samarium iodide promoted intramol.

nucleophilic acyl substitution/intramol. ketyl olefin coupling cyclization sequence)

REFERENCE COUNT: 85 THERE ARE 85 CITED REFERENCES AVAILABLE FOR THIS

FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

L5 ANSWER 7 OF 27 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1996:535181 CAPLUS

DOCUMENT NUMBER: 125:300172

TITLE: Variations on radical cascades of vinyl radicals generated from (bromomethyl)dimethylsilyl propargyl ethers

AUTHOR(S): Fensterbank, Louis; Dhimane, Anne-Lise; Wu, Sashuang;

CORPORATE SOURCE: Lacote, Emmanuel; Bogen, Stephane; Malacria, Max Lab. Chim. Org. Synthèse, Univ. P. et M. Curie, Paris,

SOURCE: 75252, Fr. Tetrahedron (1996), 52(35), 11405-11420 CODEN: TETRAB; ISSN: 0040-4020

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Vinyl radicals generated from (bromomethyl)dimethylsilyl propargyl ethers

have been efficiently engaged in cascades of radical cyclizations.

Through the enchainment of 5-exo-dig-5-(π -endo)-exo-trig-6-endo-trig

or

5-exo-dig-5-(π -endo)-exo-trig-6-exo-trig radical processes, hydrindene and a steroid skeleton could be assembled. Appending on the alkyne a suitable chain bearing a dioxolane for 1,5-radical translocations

proved

10/520,282

also very rewarding since a very diastereoselective access to cyclopentanone derivs. could be devised.

IT 182567-18-6P 182567-19-7P

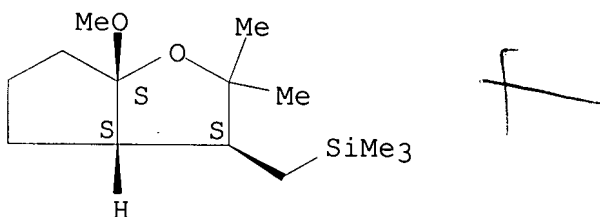
RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation and radical cyclization of (bromomethyl)dimethylsilyl propargyl ethers)

RN 182567-18-6 CAPLUS

CN Silane, [(hexahydro-6a-methoxy-2,2-dimethyl-2H-cyclopenta[b]furan-3-yl)methyl]trimethyl-, (3 α ,3 α ,6 α)-(9CI) (CA INDEX NAME)

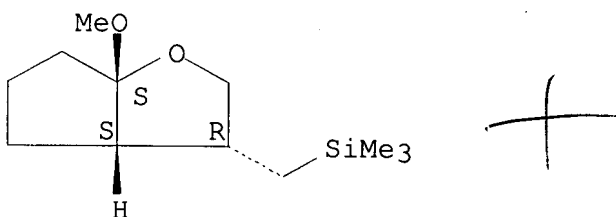
Relative stereochemistry.



RN 182567-19-7 CAPLUS

CN Silane, [(hexahydro-6a-methoxy-2H-cyclopenta[b]furan-3-yl)methyl]trimethyl-, (3 α ,3 α β ,6 α β)-(9CI) (CA INDEX NAME)

Relative stereochemistry.



CC 21-2 (General Organic Chemistry)

RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. and radical cyclization of (bromomethyl)dimethylsilyl propargyl ethers)

L5 ANSWER 8 OF 27 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:141525 CAPLUS

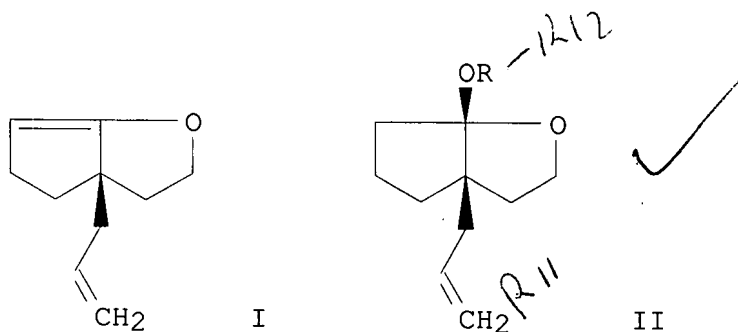
DOCUMENT NUMBER: 122:160385

TITLE: A new alkenyl ether giving acetal with stereospecific

manner

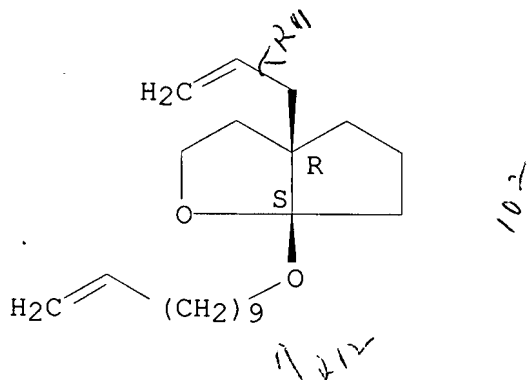
10/520,282

AUTHOR(S): Nemoto, Hisao
CORPORATE SOURCE: Dep. Applied Molecular Sci., Okazaki Inst.
Molecular Science, Okazaki, Aichi, 444, Japan
SOURCE: Tetrahedron Letters (1994), 35(42), 7785-8
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 122:160385
GI



AB Acetalization of the alkenyl ether (\pm)-3,3a,4,5-tetrahydro-3a-(2-propenyl)-2H-cyclopenta[b]furan [(\pm)-I] gave stereospecifically cis-(\pm)-hexahydro-6a-methoxy-3a-(2-propenyl)-2H-cyclopenta[b]furan; the stereochem. was proven by x-ray anal.
IT 161394-51-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(deprotection of 6a-(alkoxy)benzo[b]furan)
RN 161394-51-0 CAPLUS
CN 2H-Cyclopenta[b]furan, hexahydro-3a-(2-propenyl)-6a-(10-undecenyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT 161394-44-1P 161394-45-2P 161394-46-3P
161394-47-4P 161394-48-5P
RL: SPN (Synthetic preparation); PREP (Preparation)

10/520,282

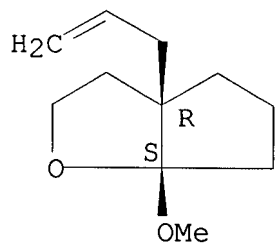
(preparation of 6a-(alkoxy)benzo[b]furan by stereoselective acetalization of

3a-(propenyl)cyclopenta[b]furan)

RN 161394-44-1 CAPLUS

CN 2H-Cyclopenta[b]furan, hexahydro-6a-methoxy-3a-(2-propenyl)-, (3aR,6aS)-rel- (9CI) (CA INDEX NAME)

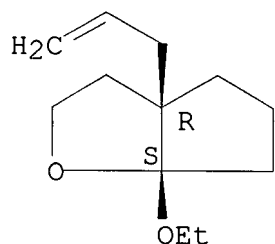
Relative stereochemistry.



RN 161394-45-2 CAPLUS

CN 2H-Cyclopenta[b]furan, 6a-ethoxyhexahydro-3a-(2-propenyl)-, cis- (9CI) (CA INDEX NAME)

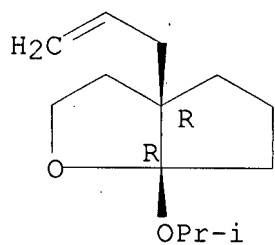
Relative stereochemistry.



RN 161394-46-3 CAPLUS

CN 2H-Cyclopenta[b]furan, hexahydro-6a-(1-methylethoxy)-3a-(2-propenyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

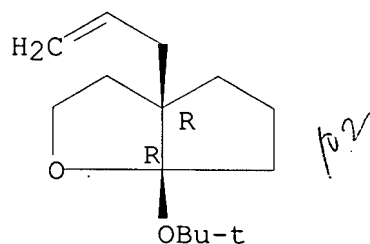


RN 161394-47-4 CAPLUS

10/520,282

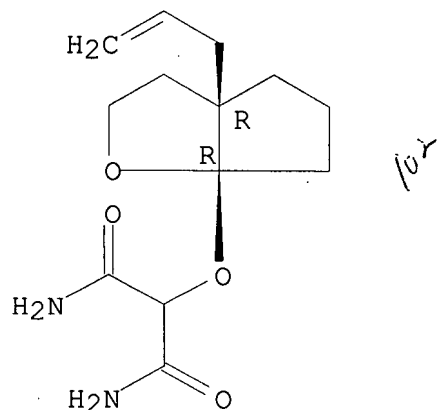
CN 2H-Cyclopenta[b]furan,
6a-(1,1-dimethylethoxy)hexahydro-3a-(2-propenyl)-,
cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 161394-48-5 CAPLUS
CN Propanediamide,
2-[[hexahydro-3a-(2-propenyl)-6aH-cyclopenta[b]furan-6a-yl]oxy]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



CC 27-6 (Heterocyclic Compounds (One Hetero Atom))
Section cross-reference(s): 75
IT 161394-51-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(deprotection of 6a-(alkoxy)benzo[b]furan)
IT 161394-44-1P 161394-45-2P 161394-46-3P
161394-47-4P 161394-48-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of 6a-(alkoxy)benzo[b]furan by stereoselective
acetalization of
3a-(propenyl)cyclopenta[b]furan)

L5 ANSWER 9 OF 27 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1994:270951 CAPLUS

10/520,282

DOCUMENT NUMBER: 120:270951
TITLE: Total synthesis of (+)-13-ethyl-3-methoxygona-1,3,5,9(11)-tetraen-17-one via the tandem Claisen-ene strategy
AUTHOR(S): Groen-Piotrowska, E. M.; Groen, M. B.
CORPORATE SOURCE: Organon Sci. Dev. Group, Oss, 5340 BH, Neth.
SOURCE: Recueil des Travaux Chimiques des Pays-Bas (1993), 112(12), 627-34
CODEN: RTCPA3; ISSN: 0165-0513
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 120:270951
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB A total synthesis of the title compound I, a potential precursor of the progestagens desogestrel and 3-ketodesogestrel, is described. The backbone of the steroid was assembled by condensation of 1,2-dihydronaphthalene II with 6-nonen-2-ynoic acid III (TBDMS = tert-butyldimethylsilyl) and subsequent Claisen rearrangement of the resulting enol ether to give disecosteroid IV. Heating of IV at 170° gave a 1:1 mixture of 9,11-secosteroids V and its 13 α epimer. The 13 β -epimer V was converted into 9,11-secogona-1,3,5(10)-triene-9,17-dione VI (X = Br), which was treated with triphenylphosphine under high pressure conditions (12 kbar, 55°) to give the corresponding phosphonium salt VI (X = P+Ph₃ Br-) (VII). The intramol. Wittig reaction of VII proceeded with epimerization at C-8 to give exclusively the 8 α epimer of I, which underwent isomerization upon treatment with acid to the title compound I.

IT 154619-42-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);

RACT

(Reactant or reagent)

(preparation and deacetalization-bromination of)

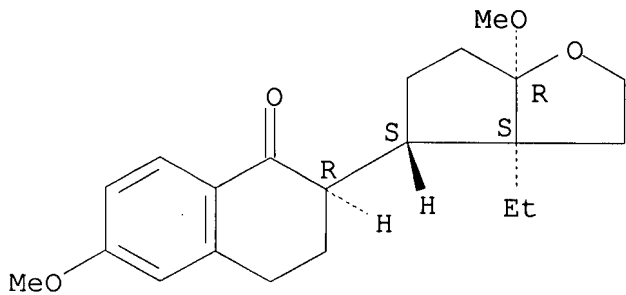
RN 154619-42-8 CAPLUS

CN 1(2H)-Naphthalenone,

2-(3a-ethylhexahydro-6a-methoxy-2H-cyclopenta[b]furan-4-yl)-3,4-dihydro-6-methoxy-, [3aS-[3a α ,4 α (S*),6a α]]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

10/520,282

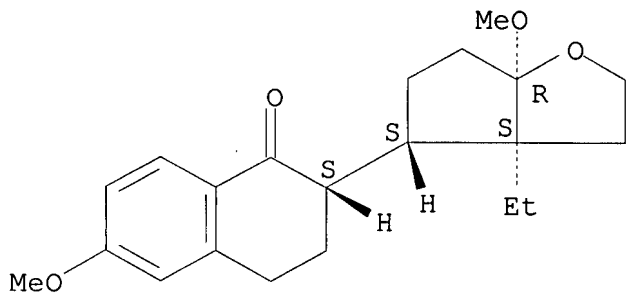


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IT      154726-64-4P
        RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
RACT    (Reactant or reagent)
        (preparation and isomerization of)
RN      154726-64-4  CAPLUS
CN      1(2H)-Naphthalenone,
2-(3a-ethylhexahydro-6a-methoxy-2H-cyclopenta[b]furan-
4-yl)-3,4-dihydro-6-methoxy-, [3aS-[3a $\alpha$ ,4 $\alpha$ (R*),6a $\alpha$ ]]-
(9CI)   (CA INDEX NAME)

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Absolute stereochemistry.



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CC      32-2 (Steroids)
IT      154619-42-8P
        RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
        RACT      (Reactant or reagent)
                (preparation and deacetalization-bromination of)
IT      154726-64-4P
        RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
        RACT      (Reactant or reagent)
                (preparation and isomerization of)
```

L5 - ANSWER 10 OF 27 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1991:6923 CAPLUS
DOCUMENT NUMBER: 114:6923
TITLE: Baeyer-Villiger oxidation of (3aS and

10/520,282

AUTHOR(S):
CORPORATE SOURCE:

SOURCE:
Chemistry

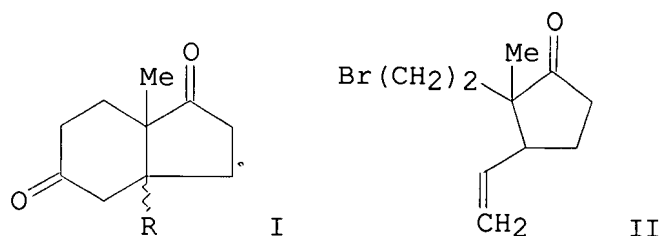
DOCUMENT TYPE:
LANGUAGE:
OTHER SOURCE(S):
GI

3aR,7aS)-1,2,3a,4,5,6,7,7a-octahydro-7a-methyl[1H]indene-1,5-diones. Synthesis of a chiral synthon for total synthesis of 14 β -estrone
Daniewski, Andrzej Robert; Kiegiel, Jaroslaw
Inst. Org. Chem., Pol. Acad. Sci., Warsaw, 01-224, Pol.

Bulletin of the Polish Academy of Sciences,

(1989), 37(7-8), 277-81
CODEN: BPACEQ; ISSN: 0239-7285

Journal
English
CASREACT 114:6923



AB Regioselectivity of Baeyer-Villiger oxidation of the title compds. I
(R =

β -H, α -H) depends on acidity of the reaction medium. Easily accessible I (R = β -H) was transformed into synthon II, which can be used for total synthesis of 14 β -estrone.

IT 130467-39-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);

RACT

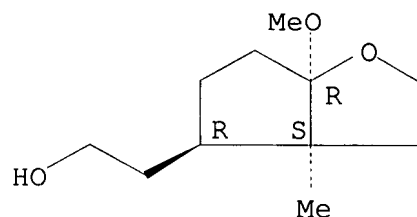
(Reactant or reagent)

(preparation and dehydration of)

RN 130467-39-9 CAPLUS

CN 2H-Cyclopenta[b]furan-4-ethanol, hexahydro-6a-methoxy-3a-methyl-,
[3aS-(3a α ,4 β ,6a α)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

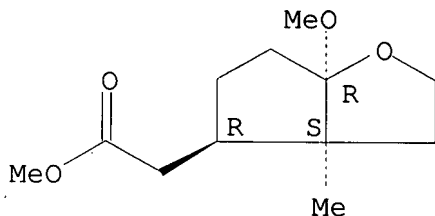


IT 130467-38-8P

10/520,282

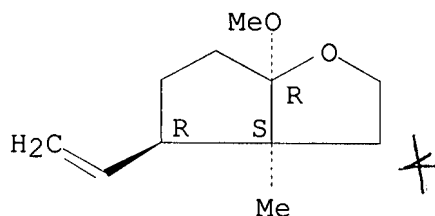
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
RACT
 (Reactant or reagent)
 (preparation and hydride reduction of)
RN 130467-38-8 CAPLUS
CN 2H-Cyclopenta[b]furan-4-acetic acid, hexahydro-6a-methoxy-3a-methyl-,
methyl ester, [3aS-(3a α ,4 β ,6a α)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 130467-40-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
RACT
 (Reactant or reagent)
 (preparation and ring cleavage of)
RN 130467-40-2 CAPLUS
CN 2H-Cyclopenta[b]furan, 4-ethenylhexahydro-6a-methoxy-3a-methyl-,
[3aS-(3a α ,4 β ,6a α)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

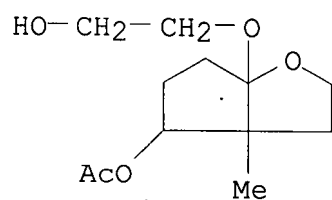


CC 32-3 (Steroids)
IT 130467-39-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
RACT
 (Reactant or reagent)
 (preparation and dehydration of)
IT 130467-38-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
RACT
 (Reactant or reagent)
 (preparation and hydride reduction of)
IT 130467-40-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
RACT

(Reactant or reagent)
(preparation and ring cleavage of)

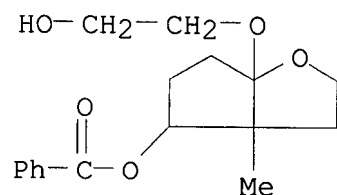
L5 ANSWER 11 OF 27 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1989:594134 CAPLUS
 DOCUMENT NUMBER: 111:194134
 TITLE: Synthesis of
 2-[5,5-(ethylenedioxy)-1-methylcyclopent-
 2-en-1-yl]ethanol, and some 2H-cyclopenta[b]furan
 derivatives formed by intramolecular displacement
 reactions
 AUTHOR(S): Campbell, Michael; Collins, David J.; James,
 Alison M.
 CORPORATE SOURCE: Chem. Dep., Monash Univ., Clayton, 3168, Australia
 SOURCE: Australian Journal of Chemistry (1989),
 42(1), 17-35
 CODEN: AJCHAS; ISSN: 0004-9425
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 111:194134
 AB Exchange dioxolanation of
 2-methyl-2-(prop-2-enyl)cyclopentane-1,3-dione
 gave 3,3-(ethylenedioxy)-2-methyl-2-(prop-2-enyl)cyclopentan-1-one,
 which,
 upon reduction and esterification, afforded the epimeric
 3,3-(ethylenedioxy)-2-
 methyl-2-(prop-2-enyl)cyclopent-1-yl benzoates (I). Oxidative
 cleavage of
 the terminal double bond in I, followed by NaBH₄ reduction yielded
 3,3-(ethylenedioxy)-2-(2-hydroxyethyl)-2-methylcyclopent-1-yl benzoate
 (II) which underwent acid-catalyzed rearrangement to
 6a-(2-hydroxyethoxy)-
 3a-methylhexahydrocyclopenta[b]furan-4-yl benzoate. Flash vacuum
 pyrolysis of the tert-butyl dimethylsilyl ether derived from the hydroxy
 acetal II afforded 3-[2-(tert-butyl dimethylsilyloxy)ethyl]-4,4-
 (ethylenedioxy)-3-methylcyclopent-1-ene which upon selective cleavage
 of
 the silyl ether group gave title compound (III). Reaction of the
 mesylate
 of III with LiBr or LiI in THF at 50-5° for several h yielded some
 of the corresponding 3-(2-haloethyl) compds., but gave mainly the
 rearranged 6a-(2-haloethoxy)-3a-methyl-3,3a,6,6a-tetrahydro-2H-
 cyclopenta[b]furans.
 IT 123434-61-7P 123434-86-6P 123434-87-7P
 123485-37-0P 123485-38-1P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (preparation and spectra of)
 RN 123434-61-7 CAPLUS
 CN 2H-Cyclopenta[b]furan-4-ol, hexahydro-6a-(2-hydroxyethoxy)-3a-methyl-,
 4-acetate, (3a α ,4 β ,6a α)- (9CI) (CA INDEX NAME)

10/520,282



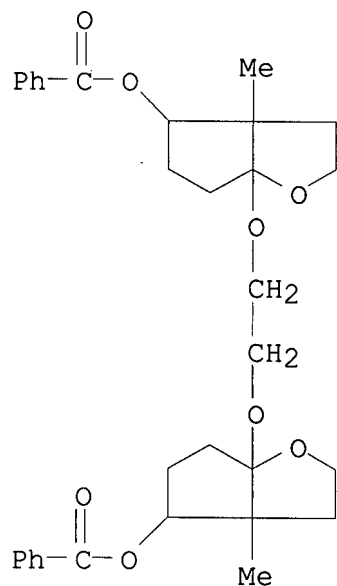
RN 123434-86-6 CAPLUS

CN 2H-Cyclopenta[b]furan-4-ol, hexahydro-6a-(2-hydroxyethoxy)-3a-methyl-,
4-benzoate, (3 α ,4 α ,6 α)-(9CI) (CA INDEX NAME)



RN 123434-87-7 CAPLUS

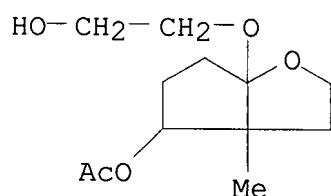
CN 2H-Cyclopenta[b]furan-4-ol,
6a,6'a-[1,2-ethanediylbis(oxy)]bis[hexahydro-
3a-methyl-, dibenzoate (9CI) (CA INDEX NAME)



RN 123485-37-0 CAPLUS

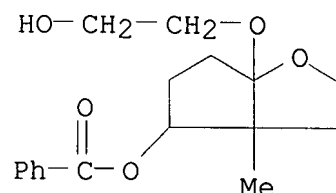
CN 2H-Cyclopenta[b]furan-4-ol, hexahydro-6a-(2-hydroxyethoxy)-3a-methyl-,
4-acetate, (3 α ,4 α ,6 α)-(9CI) (CA INDEX NAME)

10/520,282



RN 123485-38-1 CAPLUS

CN 2H-Cyclopenta[b]furan-4-ol, hexahydro-6a-(2-hydroxyethoxy)-3a-methyl-, 4-benzoate, (3 α ,4 β ,6 α)- (9CI) (CA INDEX NAME)



CC 24-4 (Alicyclic Compounds)

Section cross-reference(s): 28, 32

IT 123434-61-7P 123434-62-8P 123434-63-9P 123434-64-0P

123434-68-4P 123434-72-0P 123434-78-6P 123434-79-7P

123434-81-1P

123434-86-6P 123434-87-7P 123434-88-8P

123485-37-0P 123485-38-1P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and spectra of)

L5 ANSWER 12 OF 27 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1989:477279 CAPLUS

DOCUMENT NUMBER: 111:77279

TITLE: Reactivity of unsaturated ketones and oxiranes in
the

iodocyclization reaction
AUTHOR(S): Kupchik, I. P.; Koryak, E. B.; Gevaza, Yu. I.;
Staninets, V. I.

CORPORATE SOURCE: Inst. Org. Khim., Kiev, USSR
SOURCE: Ukrainskii Khimicheskii Zhurnal (Russian Edition) (
1988), 54(11), 1180-3
CODEN: UKZHAU; ISSN: 0041-6045

DOCUMENT TYPE: Journal

LANGUAGE: Russian

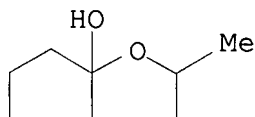
OTHER SOURCE(S): CASREACT 111:77279

AB Rate consts. were determined for the iodocyclization of the title
compds. in

aqueous NaHCO₃ or phosphate buffer. The reactivities decreased in the
following order: 2-(2-methyl-2-butenyl)cyclohexanone >
2-methyl-2-hepten-6-one > 2-allylcyclohexanone > 2-allyl-2-hydroxy-4-
pentenol > 1-hexen-5-one > 2-phenyl-2-hydroxy-4-pentenol >

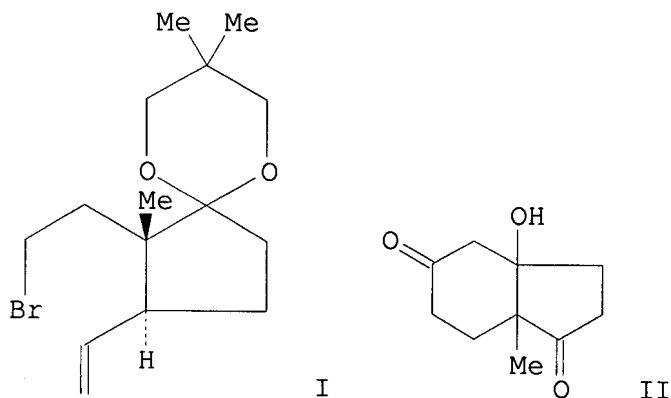
10/520,282

2-allylcyclopentanone \approx 1,2-epoxy-2-phenyl-4-pentene >
1,2-epoxy-2-allyl-4-pentene.
IT 73859-59-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 73859-59-3 CAPLUS
CN 6aH-Cyclopenta[b]furan-6a-ol, hexahydro-2-methyl- (9CI) (CA INDEX
NAME)



CC 22-5 (Physical Organic Chemistry)
IT 73859-59-3P 90201-25-5P 121949-38-0P 121949-39-1P
121949-40-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

L5 ANSWER 13 OF 27 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1988:221943 CAPLUS
DOCUMENT NUMBER: 108:221943
TITLE: A new route to a chiral synthon for the total
synthesis of estrone
AUTHOR(S): Daniewski, Andrzej Robert; Kiegiel, Jaroslaw
CORPORATE SOURCE: Inst. Org. Chem., Pol. Acad. Sci., Warsaw,
PL-01-224,
Pol.
SOURCE: Synthesis (1987), (8), 705-8
CODEN: SYNTBF; ISSN: 0039-7881
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 108:221943
GI



AB An improved synthesis of chiral synthon C (I) for estrone from chiral perhydroindandione II was described.

IT 114611-49-3P 114611-50-6P 114611-51-7P

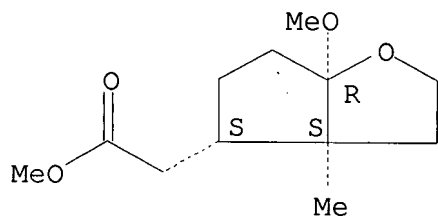
RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of, as intermediate in improved synthesis of chiral estron synthon)

RN 114611-49-3 CAPLUS

CN 2H-Cyclopenta[b]furan-4-acetic acid, hexahydro-6a-methoxy-3a-methyl-, methyl ester, [3aS-(3a α ,4 α ,6a α)]- (9CI) (CA INDEX NAME)

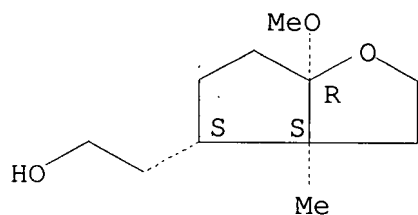
Absolute stereochemistry.



RN 114611-50-6 CAPLUS

CN 2H-Cyclopenta[b]furan-4-ethanol, hexahydro-6a-methoxy-3a-methyl-, [3aS-(3a α ,4 α ,6a α)]- (9CI) (CA INDEX NAME)

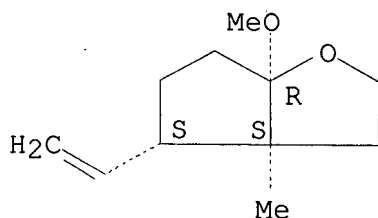
Absolute stereochemistry.



10/520,282

RN 114611-51-7 CAPLUS
CN 2H-Cyclopenta[b]furan, 4-ethenylhexahydro-6a-methoxy-3a-methyl-,
[3aS-(3a α ,4 α ,6a α)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



CC 32-3 (Steroids)
IT 114611-43-7P 114611-46-0P 114611-48-2P 114611-49-3P
114611-50-6P 114611-51-7P 114611-52-8P 114673-85-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as intermediate in improved synthesis of chiral
estron
synthon)

L5 ANSWER 14 OF 27 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1987:66797 CAPLUS
DOCUMENT NUMBER: 106:66797
TITLE: Regiospecific generation and alkylation of γ -oxo
 α -ester enolates. Application to the synthesis
of polycyclopentanoids
AUTHOR(S): Marino, Joseph P.; Laborde, Edgardo
CORPORATE SOURCE: Dep. Chem., Univ. Michigan, Ann Arbor, MI, 48109,
USA
SOURCE: Journal of Organic Chemistry (1987), 52(1),
1-10
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 106:66797

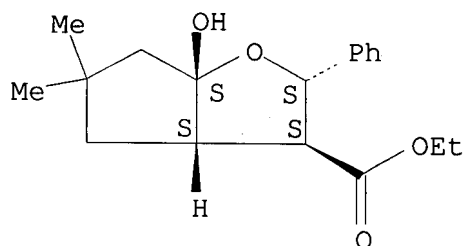
AB A new strategy for [3 + 2] annulation utilizes the combination of a C3
synthon in the form of a γ -oxo α -ester enolate with a C2
Michael acceptor. The enolate synthon is derived from the
fluoride-induced desilylation of 2-(silyloxy)cyclopropanecarboxylates.
This new methodol. has been applied to the construction of the
bicyclo[3.3.0]octane and the tricyclo[6.3.0.02,6]undecane ring systems,
the latter by using a reiterative process.

IT 105619-68-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 105619-68-9 CAPLUS
CN 2H-Cyclopenta[b]furan-3-carboxylic acid,
hexahydro-6a-hydroxy-5,5-dimethyl-

10/520,282.

2-phenyl-, ethyl ester, (2 α ,3 β ,3 $\alpha\beta$,6 $\alpha\beta$)- (9CI) (CA
INDEX NAME)

Relative stereochemistry.



CC 24-8 (Alicyclic Compounds)

IT 50891-56-0P 94499-68-0P 94499-69-1P 94499-72-6P 94499-73-7P
94499-74-8P 94499-75-9P 94499-83-9P 105576-31-6P
105619-68-9P 105619-69-0P 105619-70-3P 105619-71-4P
105619-72-5P 105619-73-6P 105619-75-8P 105619-76-9P
105619-77-0P
105619-80-5P 105619-81-6P 105662-70-2P 105662-74-6P
105662-75-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

L5 ANSWER 15 OF 27 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1985:437524 CAPLUS

DOCUMENT NUMBER: 103:37524

TITLE: Relative reactivities of representative aldehydes
and

ketones toward trimethylsilyl-substituted
propargylic

boranes

AUTHOR(S): Wang, Kung K.; Liu, Chin

CORPORATE SOURCE: Dep. Chem., West Virginia Univ., Morgantown, WV,
26506, USA

SOURCE: Journal of Organic Chemistry (1985), 50(14),
2578-80

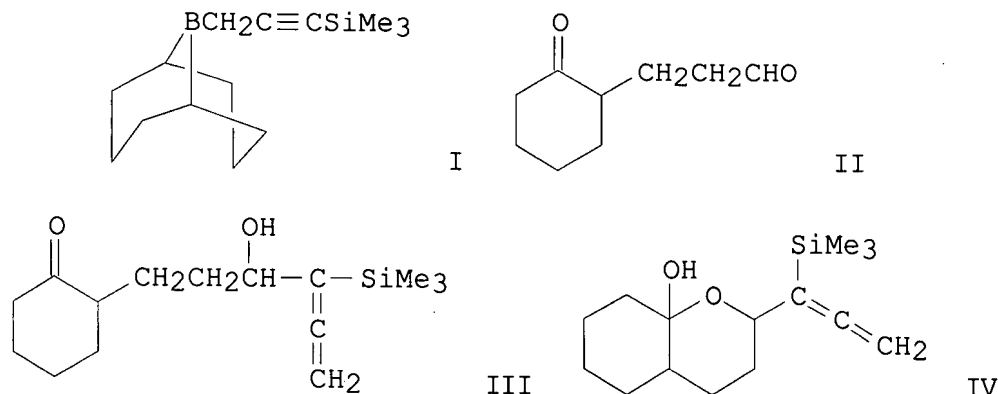
CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 103:37524

GI



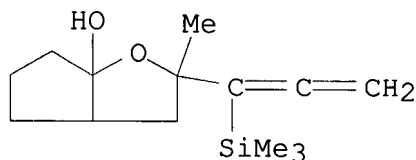
AB The relative reactivities of aldehyde and ketones toward triethylsilyl-substituted propargylic boranes were determined by competitive expts. Aldehydes were much more reactive than ketones; cyclohexanone and Me ketones showed higher reactivities than other ketones; and carboxylate esters exhibited no significant reactivity. These differences in reactivity allowed selective reaction of an aldehyde group in the presence of a keto group; an Ac group in the presence of a cyclopentanone group; and a keto group in the presence of a carboxylate group. Thus, reaction of I with II followed by treatment with NaOH-H₂O₂ gave III, which tautomerized to IV.

IT 96503-45-6P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and spectra of)

RN 96503-45-6 CAPLUS

CN 6aH-Cyclopenta[b]furan-6a-ol,
hexahydro-2-methyl-2-[1-(trimethylsilyl)-1,2-propadienyl]- (9CI) (CA INDEX NAME)



CC 29-4 (Organometallic and Organometalloidal Compounds)

IT 96503-44-5P 96503-45-6P 96503-47-8P 96503-48-9P

96503-49-0P 96503-50-3P 96503-51-4P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and spectra of)

L5 ANSWER 16 OF 27 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1985:167001 CAPLUS

DOCUMENT NUMBER: 102:167001

TITLE: Intramolecular Diels-Alder reaction with furan-diene.

AUTHOR(S):

1. A novel entry to the BCD-ring system of 11-oxo steroids

Van Royen, Luc A.; Mijngheer, Roelant; De Clercq, Pierre J.

CORPORATE SOURCE:

Lab. Org. Synth., State Univ. Ghent, Ghent, B-9000, Belg.

SOURCE:

Bulletin des Societes Chimiques Belges (1984), 93(11), 1019-36

CODEN: BSCBAG; ISSN: 0037-9646

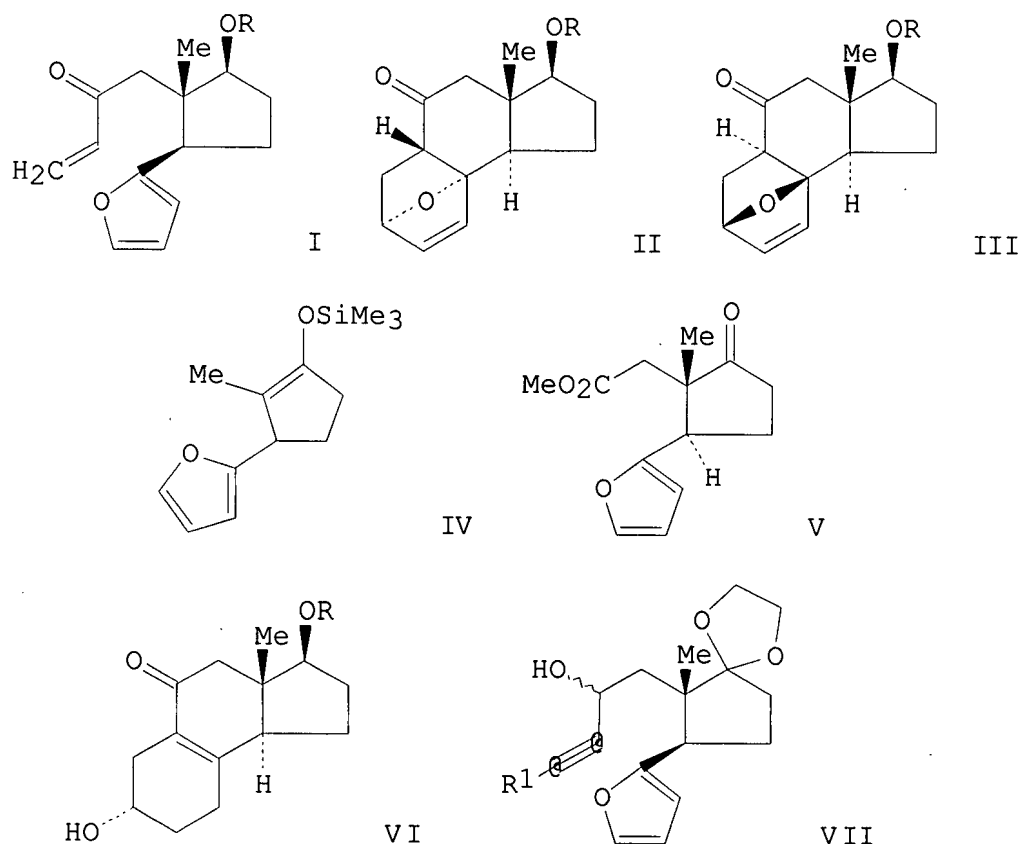
DOCUMENT TYPE:

Journal

LANGUAGE:

English

GI



AB The steroidal BCD-ring system was prepared by intramol. Diels-Alder reaction

of cyclopentylbutenone I ($R = \text{SiMe}_2\text{CMe}_3$) to give isomeric

epoxycyclopentanaphthalenes II and III by kinetic and thermodyn. control,

resp. I was prepared from furylcyclopentene IV via regioselective-stereoselective alkylation by $\text{BrCH}_2\text{CO}_2\text{Me}$ to give the cyclopentaneacetate

V. The dihydro derivative of II underwent ring cleavage in MeOH containing NaOMe

to give the de-A-steroid VI without C-14 epimerization. Other furylcyclopentanes, e.g., VII ($\text{R}_1 = \text{Bu}$, CO_2Et), were prepared and their Diels-Alder cyclizations studied.

IT 95852-76-9P 95910-77-3P 95910-78-4P

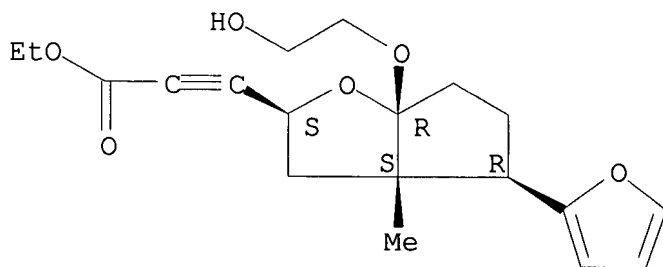
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 95852-76-9 CAPLUS

CN 2-Propynoic acid,

3-[4-(2-furanyl)hexahydro-6a-(2-hydroxyethoxy)-3a-methyl-2H-cyclopenta[b]furan-2-yl]-, ethyl ester, ($2\alpha, 3\alpha, 4\alpha, 6\alpha$)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

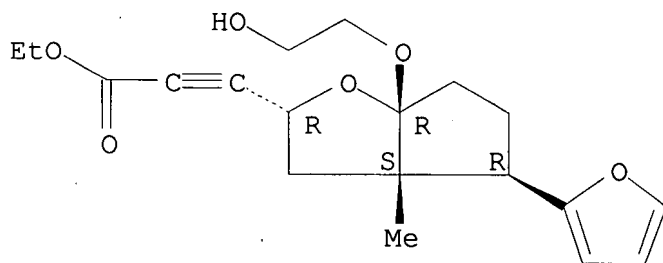


RN 95910-77-3 CAPLUS

CN 2-Propynoic acid,

3-[4-(2-furanyl)hexahydro-6a-(2-hydroxyethoxy)-3a-methyl-2H-cyclopenta[b]furan-2-yl]-, ethyl ester, ($2\alpha, 3\alpha\beta, 4\beta, 6\alpha.b$ eta.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



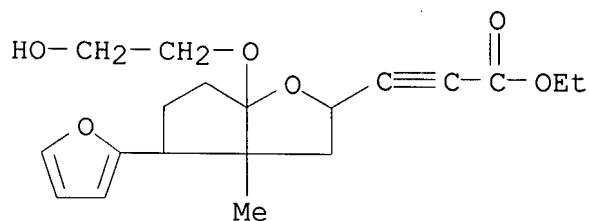
RN 95910-78-4 CAPLUS

CN 2-Propynoic acid,

3-[4-(2-furanyl)hexahydro-6a-(2-hydroxyethoxy)-3a-methyl-

10/520,282

2H-cyclopenta[b]furan-2-yl]-, ethyl ester (9CI) (CA INDEX NAME)



CC 32-3 (Steroids)

Section cross-reference(s): 27

IT 83662-18-4P 87530-46-9P 95852-74-7P 95852-76-9P
95852-78-1P 95852-79-2P 95852-81-6P 95852-82-7P 95852-83-8P
95852-86-1P 95852-87-2P 95852-89-4P 95852-99-6P 95910-75-1P
95910-77-3P 95910-78-4P 95910-93-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

L5 ANSWER 17 OF 27 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1982:582043 CAPLUS

DOCUMENT NUMBER: 97:182043

TITLE: Synthetic approaches to 11-deoxyhomoprostacyclin
analogs

AUTHOR(S): Dixon, Andrew J.; Taylor, Richard J. K.; Newton,
Roger

CORPORATE SOURCE: F.; Wadsworth, Alan H.; Klinkert, Graham
SOURCE: Chem. Dep., Open Univ., Milton Keynes, MK7 6AA, UK
Journal of the Chemical Society, Perkin
Transactions

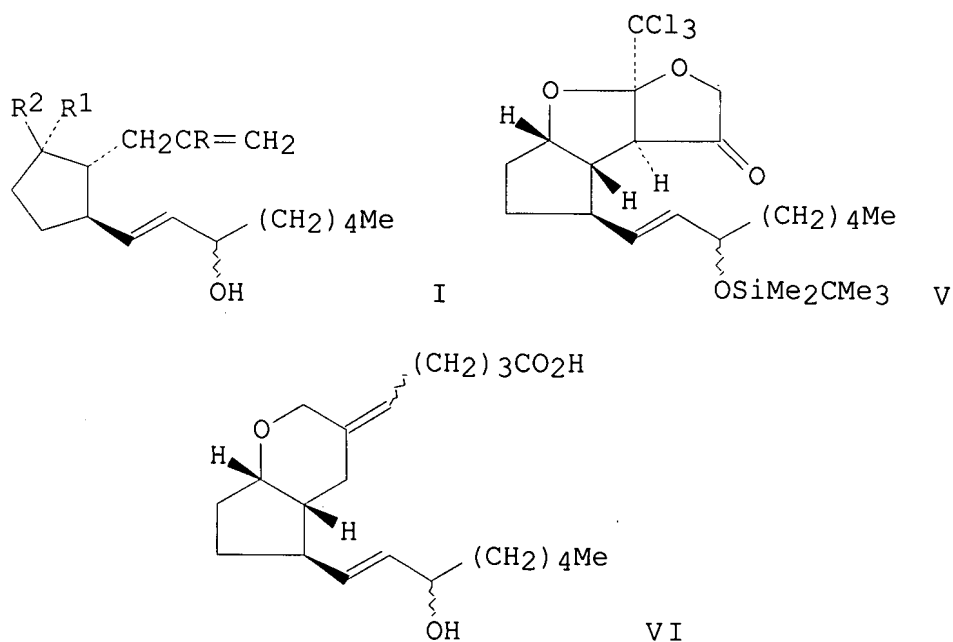
1: Organic and Bio-Organic Chemistry (1972-1999) (
1982), (8), 1923-32

CODEN: JCPRB4; ISSN: 0300-922X

DOCUMENT TYPE: Journal

LANGUAGE: English

GI

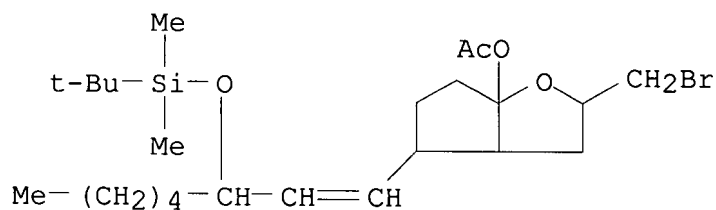


AB A number of synthetic approaches to the title compds. are described.
The key intermediates allylcyclopentanones I (R = H, OH, R1R2 = O) (II and III, resp.) were prepared from cyclopent-2-enone using the organocuprate conjugate addition-enolate alkylation reaction. Selective functionalization of the allylic double bond in II and protected derivs. of alc. I (R = R2 = H, R1 = OH) (IV) were attempted using Br in AcOH, NBS in aqueous DMSO, and I2-Ag2CrO4, but these reactions were not useful in the preparation of the title compds., although a number of interesting observations were made, including the preparation of the novel tricyclic compound V by sequential trichloroacetylation, iodination-oxidation, and cyclization of IV. The diastereoisomeric deoxyhomoprostacyclins (4-exo-E)-(3'R)-, -(3'S)-, (4-exo-Z)-(3'R)-, and -(3'S)-VI were prepared in 5 steps from III.

IT 83345-30-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 83345-30-6 CAPLUS
CN 6aH-Cyclopenta[b]furan-6a-ol, 2-(bromomethyl)-4-[3-[(1,1-dimethylethyl)dimethylsilyl]oxy]-1-octenyl]hexahydro-, acetate (9CI)

(CA INDEX NAME)



CC 26-3 (Biomolecules and Their Synthetic Analogs)

Section cross-reference(s): 27

IT 82393-43-9P 82393-44-0P 82393-46-2P 82393-51-9P 82442-97-5P
 83345-30-6P 83345-32-8P 83345-34-0P 83345-35-1P
 83345-36-2P 83345-39-5P 83345-40-8P 83345-41-9P 83377-89-3P
 83377-90-6P 83377-91-7P 83377-92-8P 83377-99-5P 83378-01-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

L5 ANSWER 18 OF 27 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1982:69234 CAPLUS

DOCUMENT NUMBER: 96:69234

TITLE: Synthesis of racemic fomannosin and illudol using a
 biosynthetically patterned common intermediate

AUTHOR(S): Semmelhack, M. F.; Tomoda, Shuji; Nagaoka, Hiroto;
 Boettger, Susan D.; Hurst, Kenneth M.

CORPORATE SOURCE: Dep. Chem., Princeton Univ., Princeton, NJ, 08544,
 USA

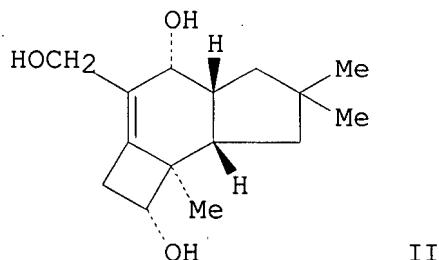
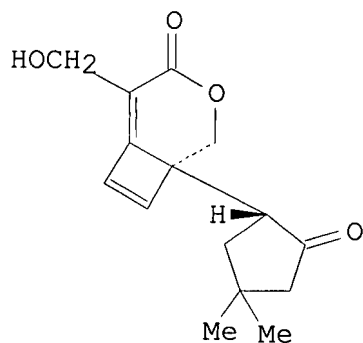
SOURCE: Journal of the American Chemical Society (1982
), 104(3), 747-59

CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



AB A total synthesis of (±)-fomannosin (I) was achieved via a Diels-Alder reaction of a cyclobutenecarboxylate with a vinylcyclopentene which generates the tricyclic protoilludane skeleton stereoselectively. The

10/520,282

adduct is converted through a series of 8 steps to (\pm)-illudol (II), a natural protoilludane sesquiterpene, and through 11 steps to give I.

IT 79813-00-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);

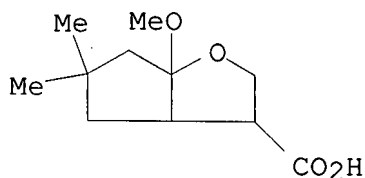
RACT

(Reactant or reagent)

(preparation and chlorination of)

RN 79813-00-6 CAPLUS

CN 2H-Cyclopenta[b]furan-3-carboxylic acid,
hexahydro-6a-methoxy-5,5-dimethyl-
, sodium salt (9CI) (CA INDEX NAME)



IT 79745-75-8P 79812-99-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);

RACT

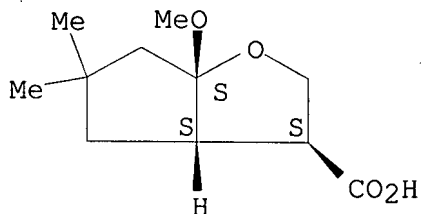
(Reactant or reagent)

(preparation and neutralization of)

RN 79745-75-8 CAPLUS

CN 2H-Cyclopenta[b]furan-3-carboxylic acid,
hexahydro-6a-methoxy-5,5-dimethyl-
, (3 α , 3a α , 6a α)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

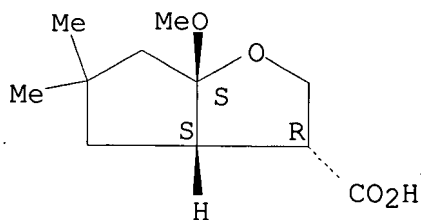


RN 79812-99-0 CAPLUS

CN 2H-Cyclopenta[b]furan-3-carboxylic acid,
hexahydro-6a-methoxy-5,5-dimethyl-
, (3 α , 3a β , 6a β)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

10/520,282



IT 79745-74-7P 79812-98-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);

RACT

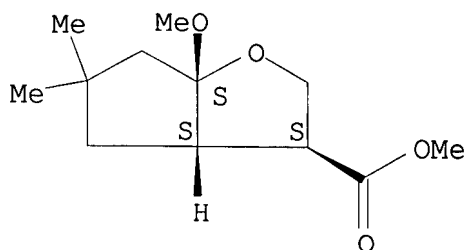
(Reactant or reagent)

(preparation and saponification of)

RN 79745-74-7 CAPLUS

CN 2H-Cyclopenta[b]furan-3-carboxylic acid,
hexahydro-6a-methoxy-5,5-dimethyl-
, methyl ester, (3 α ,3 $\alpha\alpha$,6 $\alpha\alpha$)- (9CI) (CA INDEX NAME)

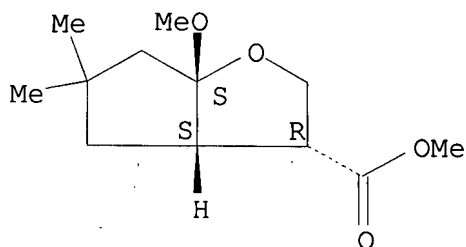
Relative stereochemistry.



RN 79812-98-9 CAPLUS

CN 2H-Cyclopenta[b]furan-3-carboxylic acid,
hexahydro-6a-methoxy-5,5-dimethyl-
, methyl ester, (3 α ,3 $\alpha\beta$,6 $\alpha\beta$)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



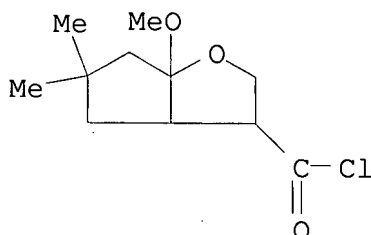
IT 79745-76-9P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation and successive dehydrochlorination and cycloaddn. with

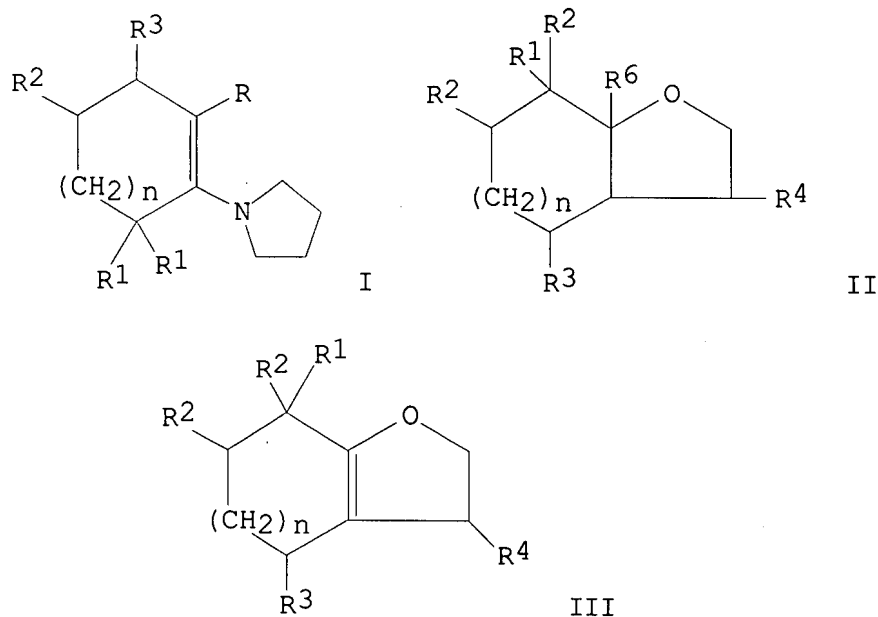
10/520,282

ethoxyacetylene)
RN 79745-76-9 CAPLUS
CN 2H-Cyclopenta[b]furan-3-carbonyl chloride, hexahydro-6a-methoxy-5,5-dimethyl- (9CI) (CA INDEX NAME)



CC 30-15 (Terpenes and Terpenoids)
IT 79813-00-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
RACT
(Reactant or reagent)
(preparation and chlorination of)
IT 79745-75-8P 79812-99-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
RACT
(Reactant or reagent)
(preparation and neutralization of)
IT 79745-74-7P 79812-98-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
RACT
(Reactant or reagent)
(preparation and saponification of)
IT 79745-76-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and successive dehydrochlorination and cycloaddn. with
ethoxyacetylene)

L5 ANSWER 19 OF 27 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1981:83863 CAPLUS
DOCUMENT NUMBER: 94:83863
TITLE: Enamine chemistry. XX. Synthesis of furan
derivatives by reductive cyclization of enamines
AUTHOR(S): Carlsson, S.; El-Barbary, A. A.; Lawesson, S. O.
CORPORATE SOURCE: Dep. Org. Chem., Univ. Aarhus, Aarhus, DK-8000,
Den.
SOURCE: Bulletin des Societes Chimiques Belges (1980
, 89(8), 643-9
CODEN: BSCBAG; ISSN: 0037-9646
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 94:83863
GI



AB Enamines I (R = CHR₄CO₂R₅; R₁-R₄ = H, Me; R₅ = Me, Et) were obtained in 41-68% yield by treating I (R = H) with BrCHR₄CO₂R₅. LiAlH₄ reduction of I (R = CHR₄CO₂R₅) gave the furans II (R₆ = pyrrolidino) which were hydrolyzed

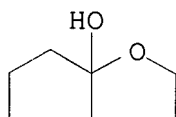
to II (R6 = OH). Treatment of II (R6 = pyrrolidino) with oxalic acid-dioxane gave III.

IT 73859-58-2P 76593-95-8P 76593-96-9P
76593-97-0P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and ring-chain tautomerism of)

RN 73859-58-2 CAPLUS

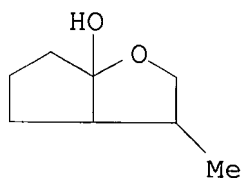
CN 6aH-Cyclopenta[b]furan-6a-ol, hexahydro- (9CI) (CA INDEX NAME)



RN 76593-95-8 CAPLUS

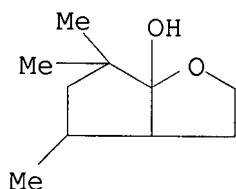
CN 6aH-Cyclopenta[b]furan-6a-ol, hexahydro-3-methyl- (9CI) (CA INDEX NAME)

10/520,282



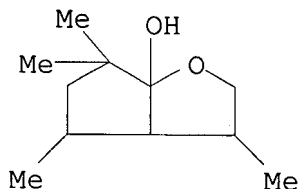
RN 76593-96-9 CAPLUS

CN 6aH-Cyclopenta[b]furan-6a-ol, hexahydro-4,6,6-trimethyl- (9CI) (CA
INDEX NAME)



RN 76593-97-0 CAPLUS

CN 6aH-Cyclopenta[b]furan-6a-ol, hexahydro-3,4,6,6-tetramethyl- (9CI) (CA
INDEX NAME)



CC 27-7 (Heterocyclic Compounds (One Hetero Atom))

IT 10198-27-3P 24804-46-4P 57133-57-0P 66806-73-3P 73859-58-2P
76593-75-4P 76593-76-5P 76593-77-6P 76593-78-7P 76593-79-8P
76593-80-1P 76593-81-2P 76593-82-3P 76593-91-4P 76593-92-5P
76593-93-6P 76593-94-7P 76593-95-8P 76593-96-9P
76593-97-0P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and ring-chain tautomerism of)

L5 ANSWER 20 OF 27 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1980:514810 CAPLUS

DOCUMENT NUMBER: 93:114810

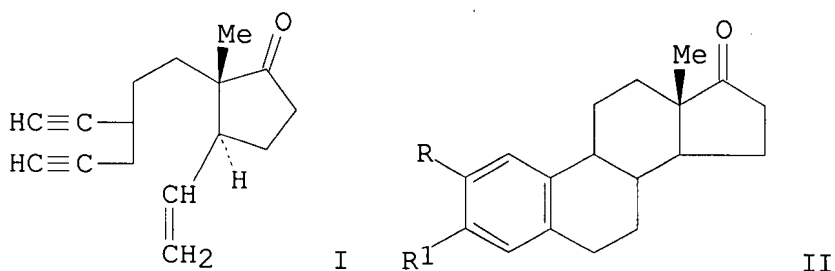
TITLE: Transition-metal-catalyzed alkyne cyclizations. A
cobalt-mediated total synthesis of dl-estrone

AUTHOR(S): Funk, Raymond L.; Vollhardt, K. Peter C.

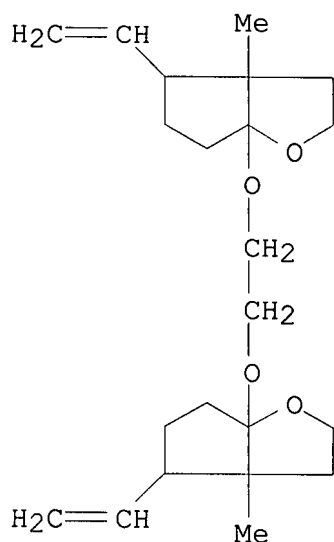
CORPORATE SOURCE: Dep. Chem., Univ. California, Berkeley, CA, 94720,
USA

10/520,282

SOURCE: Journal of the American Chemical Society (1980
, 102(16), 5253-61
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



AB Racemic steroids, including estrone, were prepared via cobalt-catalyzed
cooligomerization of hexadiyne I with alkynes. Thus, I cyclized with
Me₃SiC.tplbond.CSiMe₃ in the presence of
cyclopentadienylcobaltdicarbonyl
to give estratrienone II (R = R₁ = SiMe₃), and I cyclized with
MeOC.tplbond.CSiMe₃ to give II (R = MeO, R₁ = SiMe₃; R = SiMe₃, R₁ =
MeO)
in low yield. Estrone can be obtained with poor regioselectivity from
the
cyclic ethylene ketal of II (R = R₁ = SiMe₃) by bromination and
conversion
of the Br group to a HO group. Selective protodesilylation of II (R =
R₁ =
SiMe₃) at low temps. to II (R = H, R₁ = SiMe₃) followed by oxidative
cleavage of C-Si bond with Pb(O₂CCF₃)₄ gave estrone (prepared in 5
steps and
21.5% yield from 2-methylcyclopent-2-en-1-one and 6 steps and 15.1%
yield
from HC.tplbond.C(CH₂)₂C.tplbond.CH). There was a slight improvement
of
the yields via cyclization of the ethylene ketal of I (23.1 and 16.2%,
resp.).
IT 74384-70-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
RACT
(Reactant or reagent)
(preparation and hydrolysis of)
RN 74384-70-6 CAPLUS
CN 2H-Cyclopenta[b]furan, 6a,6'a-[1,2-ethanediylbis(oxy)]bis[4-
ethenylhexahydro-3a-methyl- (9CI) (CA INDEX NAME)



CC 32-3 (Steroids)

IT 69505-08-4P 69505-09-5P 72938-90-0P 74384-70-6P
74384-71-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);

RACT

(Reactant or reagent)
(preparation and hydrolysis of)

L5 ANSWER 21 OF 27 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1980:407389 CAPLUS

DOCUMENT NUMBER: 93:7389

TITLE: Structural effects on the hemiacetalization of
2-(hydroxyalkyl)cyclanones

AUTHOR(S): Cazaux, Michel; De Jeso, Bernard

CORPORATE SOURCE: Lab. Chim. Appl., Ec. Natl. Super. Chim. Bordeaux,
Talence, 33405, Fr.

SOURCE: Comptes Rendus des Seances de l'Academie des
Sciences,

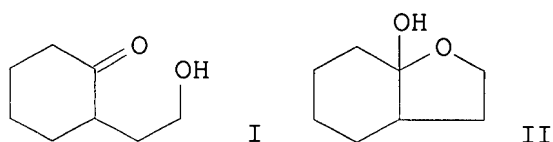
Serie C: Sciences Chimiques (1980), 290(2),
49-51

CODEN: CHDCAQ; ISSN: 0567-6541

DOCUMENT TYPE: Journal

LANGUAGE: French

GI

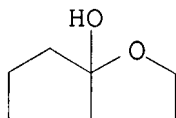


AB An NMR study of the ring-chain tautomerism of cyclic ketols, e.g., I .dblharw. II, indicates that the ring size of both the starting cycloalkanone and the heterocyclic compound influence the equilibrium. Thus, a cyclopentanone derivative favors the monocyclic forms; the cyclohexanone derivative leads more easily to the hemiacetal. Also, a THF derivative is formed with more difficulty than the tetrahydropyran derivative.

IT 73859-58-2 73859-59-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (ring opening of, NMR in relation to)

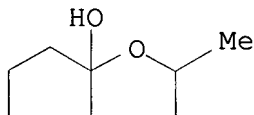
RN 73859-58-2 CAPLUS

CN 6aH-Cyclopenta[b]furan-6a-ol, hexahydro- (9CI) (CA INDEX NAME)



RN 73859-59-3 CAPLUS

CN 6aH-Cyclopenta[b]furan-6a-ol, hexahydro-2-methyl- (9CI) (CA INDEX NAME)



CC 22-6 (Physical Organic Chemistry)

IT 13377-10-1 57133-57-0 73859-58-2 73859-59-3
 73859-60-6 73859-61-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (ring opening of, NMR in relation to)

L5 ANSWER 22 OF 27 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1978:508248 CAPLUS

DOCUMENT NUMBER: 89:108248

TITLE: Competitive thermal and photochemical processes in cyclopropyl ketone rearrangements. I. Photolysis of spiro[n.2]alkan-2-ones

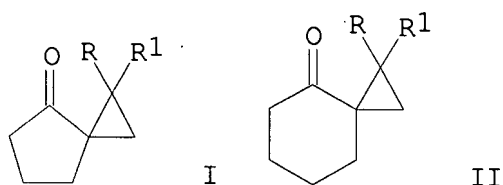
AUTHOR(S): Lee-Ruff, Edward; Khazanie, Prabhakar Govind

CORPORATE SOURCE: Dep. Chem., York Univ., Downsview, ON, Can.

SOURCE: Canadian Journal of Chemistry (1978), 56(6), 803-7

DOCUMENT TYPE:
LANGUAGE:
GI

CODEN: CJCHAG; ISSN: 0008-4042
Journal
English

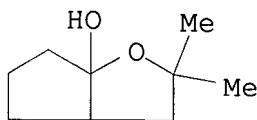


AB Irradiation of spiroketones I ($R = H$, $R_1 = Me$; $R = Me$, $R_1 = H$) in MeOH gave mainly products of type I reaction, whereas I ($R = R_1 = Me$) and II ($R = Me$, $R_1 = H$; $R = R_1 = Me$) gave type II products. Formation of type II products can arise by 2 different mechanisms. One involves the intermediacy of a dienol which can be trapped with MeOD. Photochem. degradation of the cyclopentanones was slower than that of the corresponding cyclohexanones.

IT 66806-66-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 66806-66-4 CAPLUS

CN 6aH-Cyclopenta[b]furan-6a-ol, hexahydro-2,2-dimethyl- (9CI) (CA INDEX NAME)



CC 24-4 (Alicyclic Compounds)

IT 1193-70-0P 4187-81-9P 4668-64-8P 16429-05-3P 57133-52-5P
57133-54-7P 66806-64-2P 66806-65-3P 66806-66-4P
66806-67-5P 66806-68-6P 66806-69-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

L5 ANSWER 23 OF 27 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1974:491787 CAPLUS

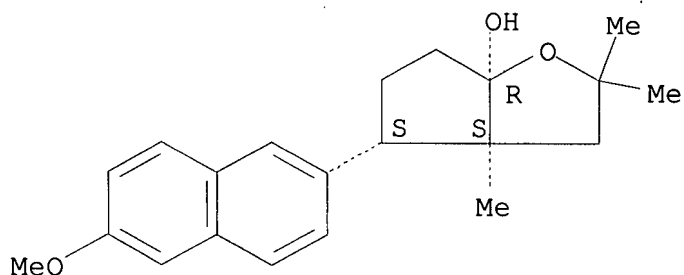
DOCUMENT NUMBER: 81:91787

TITLE: 9,11-Seco steroids derived from estradiol 3-methyl ether

10/520,282

AUTHOR(S): Dygos, John H.; Chinn, Leland J.
CORPORATE SOURCE: Dep. Chem. Res., Searle Lab., Chicago, IL, USA
SOURCE: Journal of Organic Chemistry (1973), 38(25),
4319-24
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB 9,11-Secosteroids I (RR1 = O; R = HO, R1 = HC.tplbond.C) were prepared
from estradiol 3-methyl ether. A key step was the stereoselective addition
of HC.tplbond.CMgBr to the more hindered side of I (RR1 = O). Addition of
HC.tplbond.CMgBr to cyclic ketal II yielded secopregnyne III. I (RR1
= O) possessed weak estrogenic activity and II possessed antifertility
activity without having estrogenic activity.
IT 42151-20-2P
RL: BAC (Biological activity or effector, except adverse); BSU
(Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological
study); PREP (Preparation)
(preparation and antifertility activity of)
RN 42151-20-2 CAPLUS
CN 6aH-Cyclopenta[b]furan-6a-ol, hexahydro-4-(6-methoxy-2-naphthalenyl)-
2,2,3a-trimethyl-, [3aS-(3a α ,4 α ,6a α)]- (9CI) (CA INDEX
NAME)

Absolute stereochemistry.

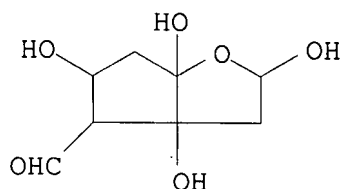


CC 32-3 (Steroids)
IT 42151-20-2P
RL: BAC (Biological activity or effector, except adverse); BSU
(Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological
study); PREP (Preparation)
(preparation and antifertility activity of)

L5 ANSWER 24 OF 27 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1973:57821 CAPLUS

10/520,282

DOCUMENT NUMBER: 78:57821
TITLE: Design of prostaglandin synthesis
AUTHOR(S): Brewster, D.; Myers, M.; Ormerod, J.; Spinner, M. E.;
Turner, S.; Smith, A. C. B.
CORPORATE SOURCE: Pharm. Div., Reckitt and Colman, Hull, UK
SOURCE: Journal of the Chemical Society, Chemical Communications (1972), (22), 1235-6
CODEN: JCCCAT; ISSN: 0022-4936
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 78:57821
GI For diagram(s), see printed CA Issue.
AB Prostaglandin F2 α (I) was prepared in 13 steps from endo-dicyclopentadiene which was converted to the bicyclo[3.3.0]octane derivs. (II, R = CHO, CO₂H, Ac; III, R = Ac, R1 = OH, OAc; R = R1 = OAc, OH) and hence to the enone (IV). Protection as the CCl₃CH₂ derivative, reduction, acetylation, and deprotection followed by a Wittig reaction and deacetylation gave I and its 15-epimer.
IT 39762-81-7P
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
RN 39762-81-7 CAPLUS
CN 2H-Cyclopenta[b]furan-4-carboxaldehyde, hexahydro-2,3a,5,6a-tetrahydroxy-(9CI) (CA INDEX NAME)



CC 24-4 (Alicyclic Compounds)
IT 23518-25-4P 39762-23-7P 39762-24-8P 39762-25-9P 39762-26-0P
39762-27-1P 39762-28-2P 39762-29-3P 39762-30-6P 39762-31-7P
39762-32-8P 39762-34-0P 39762-35-1P 39762-37-3P 39762-81-7P
39873-34-2P 61121-09-3P
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
L5 ANSWER 25 OF 27 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1971:498715 CAPLUS
DOCUMENT NUMBER: 75:98715
TITLE: Peracid oxidation of dl-3-methoxy-8,14-secoestra-1,3,5(10),9(11)-tetraene-3,17-dione
AUTHOR(S): Daniewski, A. R.; Guzewska, M.; Kocor, M.; Baran, J.

CORPORATE SOURCE: S.
 SOURCE: Inst. Org. Chem., Pol. Acad. Sci., Warsaw, Pol.
 Bulletin de l'Academie Polonaise des Sciences,
 Serie des Sciences Chimiques (1971), 19(5), 313-16
 CODEN: BAPCAQ; ISSN: 0001-4095

DOCUMENT TYPE: Journal
 LANGUAGE: English

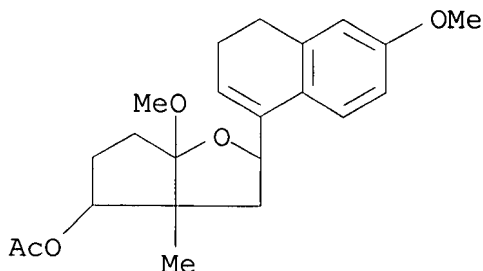
GI For diagram(s), see printed CA Issue.

AB (±)-11,14α-Epoxy-14β-hydroxy-3-methoxy-8,14-secoestra-
 1,3,5(10),8-tetraen-17-one (I) is prepared by the per acid oxidation of
 (±)-II. Thus, (±)-II is treated with m-chloroperbenzoic acid to
 give I. I is treated with BF₃ etherate to give (±)-III. (±)-II is
 treated with H₂O₂ in the presence of PhCN to give (±)-IV. NMR spectra
 data are given for I, III and IV.

IT 24432-10-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 24432-10-8 CAPLUS

CN 8,14-Secoestra-1,3,5(10),8-tetraen-17β-ol, 11,14α-epoxy-3,14-
 dimethoxy-, acetate (8CI) (CA INDEX NAME)



CC 32 (Steroids)

IT 250-49-7DP, 2H-Cyclopenta[b]furan, steroid derivs. 24421-61-2P
 24432-09-5P 24432-10-8P 30041-28-2P 33610-66-1P
 33610-67-2P 33710-45-1P 51270-58-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

L5 ANSWER 26 OF 27 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1970:476454 CAPLUS

DOCUMENT NUMBER: 73:76454

TITLE: Molecular photochemistry. XXVII. Photochemical
 ring expansion of cyclobutanone, substituted
 cyclobutanones, and related cyclic ketones

AUTHOR(S): Morton, Douglas R.; Lee-Ruff, Edward; Southam,
 Richard M.; Turro, Nicholas J.

CORPORATE SOURCE: Chem. Dep., Columbia Univ., New York, NY, USA

10/520,282

SOURCE: Journal of the American Chemical Society (1970
) , 92(14), 4349-57
CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 73:76454

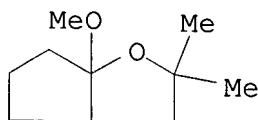
GI For diagram(s), see printed CA Issue.

AB The photochem. reactions of substituted cyclobutanones in MeOH are reported. Cyclobutanone, for example, yields 2-methoxytetrahydrofuran via an initial α -cleavage to give the most stable 1,4-acyl alkyl diradical which undergoes subsequent or concerted rearrangement and rebonding to the corresponding oxacarbene intermediate. Oxacarbenes are intermediates in these photolyses, and related systems which undergo ring expansion (e.g., benzocyclobutene-1,2-dione, cyclocamphanone, and I) are compared.

IT 29921-84-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 29921-84-4 CAPLUS

CN 2H-Cyclopenta[b]furan, hexahydro-6a-methoxy-2,2-dimethyl- (8CI) (CA INDEX NAME)



CC 22 (Physical Organic Chemistry)

IT 4237-83-6P 13436-45-8P 17546-39-3P 17628-40-9P 17628-41-0P
17636-99-6P 22566-27-4P 22566-30-9P 22566-33-2P 24186-30-9P
24186-31-0P 24186-33-2P 29916-03-8P 29916-04-9P 29916-05-0P
29916-06-1P 29916-07-2P 29916-08-3P 29916-09-4P 29916-10-7P
29921-78-6P 29921-84-4P 29921-89-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

L5 ANSWER 27 OF 27 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1970:13001 CAPLUS

DOCUMENT NUMBER: 72:13001

TITLE: 11,14 α -Epoxy-8,14-Secogona-1,3,5(10),8-tetraenes

INVENTOR(S): Baran, John S.

PATENT ASSIGNEE(S): G.D. Searle and Co.

SOURCE: U.S., 3 pp.
CODEN: USXXAM

DOCUMENT TYPE: Patent

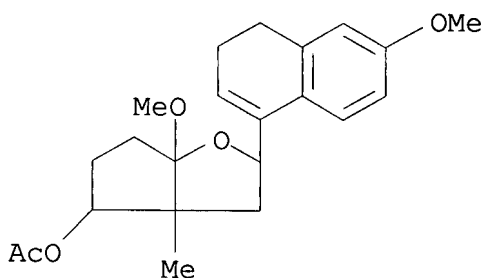
10/520,282

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 3476773	A	19691104	US 1967-663527	19670828

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PRIORITY APPLN. INFO.: US 1967-663527 A 19670828

AB Epoxidn. of
3-methoxy-8,14-secoestra-1,3,5(10),9(11)-tetraene-14,17-dione
in CHCl₃ at 10° with m-chloroperbenzoic acid 15 min gave
dl-11,14α-epoxy-14β-hydroxy-3-methoxy-8,14-secoestra-
1,3,5(10),8-tetraen-17-one (I), m. 156-7° (Me₂CO-hexane). I in
MeOH with p-MeC₆H₄SO₃H at room temperature 16 hr afforded
dl-11,14α-epoxy-
3,14β-dimethoxy-8,14-secoestra-1,3,5-(10),8-tetraen-17-one (II).
Reduction of II in tetrahydrofuran with LiAl(OBu-tert)₃H at room
temperature 15 min
gave dl-11,14α-epoxy-8,14-secoestra-1,3,5(10),8-tetraene-
3,14β,17β-triol 3,14- dimethyl ether, which on acetylation gave
the 17-acetate.
IT 24432-10-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 24432-10-8 CAPLUS
CN 8,14-Secoestra-1,3,5(10),8-tetraen-17β-ol, 11,14α-epoxy-3,14-
dimethoxy-, acetate (8CI) (CA INDEX NAME)



IC C07D; A61K
INCL 260346200
CC 32 (Steroids)
IT 24421-61-2P 24432-09-5P 24432-10-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

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